

SEQUENCE LISTING

(1) GENERAL INFORMATION:

- (i) APPLICANT: Little II, Roger G.
Lim, Edward
Fadem, Mitchell B.
- (ii) TITLE OF INVENTION: Anti-Fungal Peptides
- (iii) NUMBER OF SEQUENCES: 211
- (iv) CORRESPONDENCE ADDRESS:
 - (A) ADDRESSEE: McAndrews, Held & Malloy, Ltd.
 - (B) STREET: 500 West Madison Street, 34th Floor Drive
 - (C) CITY: Chicago
 - (D) STATE: Illinois
 - (E) COUNTRY: United States of America
 - (F) ZIP: 60661
- (v) COMPUTER READABLE FORM:
 - (A) MEDIUM TYPE: Floppy disk
 - (B) COMPUTER: IBM PC compatible
 - (C) OPERATING SYSTEM: PC-DOS/MS-DOS
 - (D) SOFTWARE: Patent In Release #1.0, Version #1.25
- (vi) CURRENT APPLICATION DATA:
 - (A) APPLICATION NUMBER:
 - (B) FILING DATE:
- (vii) PRIOR APPLICATION DATA:
 - (A) APPLICATION NUMBER: 08/372,105
 - (B) FILING DATE: 13-JAN-95
- (vii) PRIOR APPLICATION DATA:
 - (A) APPLICATION NUMBER: 08/306,473
 - (B) FILING DATE: 15-SEP-94
- (vii) PRIOR APPLICATION DATA:
 - (A) APPLICATION NUMBER: 08/273,540
 - (B) FILING DATE: 11-JUL-94
- (vii) PRIOR APPLICATION DATA:
 - (A) APPLICATION NUMBER: 08/209,762
 - (B) FILING DATE: 11-MAR-94
- (vii) PRIOR APPLICATION DATA:
 - (A) APPLICATION NUMBER: 08/183,222
 - (B) FILING DATE: 14-JAN-94
- (vii) PRIOR APPLICATION DATA:
 - (A) APPLICATION NUMBER: 08/093,202
 - (B) FILING DATE: 15-JUL-93
- (vii) PRIOR APPLICATION DATA:
 - (A) APPLICATION NUMBER: 08/030,644
 - (B) FILING DATE: 12-MAR-93
- (viii) ATTORNEY/AGENT INFORMATION:
 - (A) NAME: McNicholas, Janet M.
 - (B) REGISTRATION NUMBER: 32,918
 - (C) REFERENCE/DOCKET NUMBER: 100-238/11021US01

(ix) TELECOMMUNICATION INFORMATION:

- (A) TELEPHONE: 312/707-3889
- (B) TELEFAX: 312/707-9155
- (C) TELEX: 650 388-1248

(2) INFORMATION FOR SEQ ID NO:1:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 22 amino acids
- (B) TYPE: amino acid
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: misc_feature
- (D) OTHER INFORMATION: "XMP.5"

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: C-Terminus
- (D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

```

Val His Val His Ile Ser Lys Ser Lys Val Gly Trp Leu Ile Gln Leu
1              5              10              15
Phe His Lys Lys Ile Glu
                20

```

(2) INFORMATION FOR SEQ ID NO:2:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 13 amino acids
- (B) TYPE: amino acid
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: misc_feature
- (D) OTHER INFORMATION: "XMP.11"

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: C-Terminus
- (D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

```

Lys Ser Lys Val Trp Leu Ile Gln Leu Phe His Lys Lys
1              5              10

```

(2) INFORMATION FOR SEQ ID NO:3:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 29 amino acids
- (B) TYPE: amino acid
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: misc_feature
- (D) OTHER INFORMATION: "XMP.12"

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: C-Terminus
- (D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

```

Ser Val His Val His Ile Ser Lys Ser Lys Val Gly Trp Leu Ile Gln
1           5           10           15
Leu Phe His Lys Lys Ile Glu Ser Ala Leu Arg Asn Lys
          20           25

```

(2) INFORMATION FOR SEQ ID NO:4:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 14 amino acids
- (B) TYPE: amino acid
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: misc_feature
- (D) OTHER INFORMATION: "XMP.13"

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: C-Terminus
- (D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:

```

Lys Ser Lys Val Gly Trp Leu Ile Gln Leu Phe His Lys Lys
1           5           10

```

(2) INFORMATION FOR SEQ ID NO:5:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 28 amino acids
- (B) TYPE: amino acid
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: misc_feature
- (D) OTHER INFORMATION: "XMP.29"

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: C-Terminus
- (D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:

```

Lys Ser Lys Val Gly Trp Leu Ile Gln Leu Phe His Lys Lys Lys Ser
1           5           10           15
Lys Val Gly Trp Leu Ile Gln Leu Phe His Lys Lys
                20           25

```

(2) INFORMATION FOR SEQ ID NO:6:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 14 amino acids
- (B) TYPE: amino acid
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: misc_feature
- (D) OTHER INFORMATION: "KMP.31"

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: C-Terminus
- (D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:

```

Ala Ser Lys Val Gly Trp Leu Ile Gln Leu Phe His Lys Lys
1           5           10

```

(2) INFORMATION FOR SEQ ID NO:7:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 14 amino acids
- (B) TYPE: amino acid
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: misc_feature
- (D) OTHER INFORMATION: "KMP.32"

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: C-Terminus
- (D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:

```

Lys Ala Lys Val Gly Trp Leu Ile Gln Leu Phe His Lys Lys
1           5           10

```

(2) INFORMATION FOR SEQ ID NO:8:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 14 amino acids
- (B) TYPE: amino acid
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: misc_feature
- (D) OTHER INFORMATION: "KMP.33"

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: C-Terminus
- (D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:

Lys Ser Ala Val Gly Trp Leu Ile Gln Leu Phe His Lys Lys
1 5 10

(2) INFORMATION FOR SEQ ID NO:9:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 14 amino acids
- (B) TYPE: amino acid
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: misc_feature
- (D) OTHER INFORMATION: "KMP.34"

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: C-Terminus
- (D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:

Lys Ser Lys Ala Gly Trp Leu Ile Gln Leu Phe His Lys Lys
1 5 10

(2) INFORMATION FOR SEQ ID NO:10:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 14 amino acids
- (B) TYPE: amino acid
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: misc_feature
- (D) OTHER INFORMATION: "KMP.35"

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: C-Terminus
- (D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:

Lys Ser Lys Val Ala Trp Leu Ile Gln Leu Phe His Lys Lys

(ix) FEATURE:
 (A) NAME/KEY: Modified-site
 (B) LOCATION: C-Terminus
 (D) OTHER INFORMATION: /label= Amidation
 /note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:13:

Lys Ser Lys Val Gly Trp Leu Ala Gln Leu Phe His Lys Lys
 1 5 10

(2) INFORMATION FOR SEQ ID NO:14:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 14 amino acids
 (B) TYPE: amino acid
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:
 (A) NAME/KEY: misc_feature
 (D) OTHER INFORMATION: "XMP.39"

(ix) FEATURE:
 (A) NAME/KEY: Modified-site
 (B) LOCATION: C-Terminus
 (D) OTHER INFORMATION: /label= Amidation
 /note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:14:

Lys Ser Lys Val Gly Trp Leu Ile Ala Leu Phe His Lys Lys
 1 5 10

(2) INFORMATION FOR SEQ ID NO:15:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 14 amino acids
 (B) TYPE: amino acid
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:
 (A) NAME/KEY: misc_feature
 (D) OTHER INFORMATION: "XMP.40"

(ix) FEATURE:
 (A) NAME/KEY: Modified-site
 (B) LOCATION: C-Terminus
 (D) OTHER INFORMATION: /label= Amidation
 /note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:15:

Lys Ser Lys Val Gly Trp Leu Ile Gln Ala Phe His Lys Lys
 1 5 10

(2) INFORMATION FOR SEQ ID NO:16:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 14 amino acids

(ii) MOLECULE TYPE: peptide

[illegible]

Lys Ser Lys Val Gly Trp Leu Ile Gln Leu Ala His Lys Lys
1 5 10

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 14 amino acids
(B) TYPE: amino acid
(D) TOPOLOGY: linear

```
(ix) FEATURE:
      (A) NAME/KEY: misc feature
      (D) OTHER INFORMATION: "XMP.42"
```

(x1) SEQUENCE DESCRIPTION: SEO ID NO:17:

Lys Ser Lys Val Gly Trp Leu Ile Gln Leu Phe Ala Lys Lys
1 5 10

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 14 amino acids
(B) TYPE: amino acid
(D) TOPOLOGY: linear

```
(ix) FEATURE:
      (A) NAME/KEY: misc_feature
      (D) OTHER INFORMATION: "XMP.43"
```

[illegible]

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:18:

Lys Ser Lys Val Gly Trp Leu Ile Gln Leu Phe His Ala Lys
1 5 10

(2) INFORMATION FOR SEQ ID NO:19:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 14 amino acids
- (B) TYPE: amino acid
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: misc_feature
- (D) OTHER INFORMATION: "XMP.44"

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: C-Terminus
- (D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:19:

Lys Ser Lys Val Gly Trp Leu Ile Gln Leu Phe His Lys Ala
1 5 10

(2) INFORMATION FOR SEQ ID NO:20:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 21 amino acids
- (B) TYPE: amino acid
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: misc_feature
- (D) OTHER INFORMATION: "XMP.55"

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: C-Terminus
- (D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:20:

Gly Trp Leu Ile Gln Leu Phe His Lys Lys Ile Glu Ser Ala Leu Arg
1 5 10 15

Asn Lys Met Asn Ser
20

(2) INFORMATION FOR SEQ ID NO:21:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 14 amino acids
- (B) TYPE: amino acid
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: misc_feature
- (D) OTHER INFORMATION: "XMP.82"

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: C-Terminus
- (D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:21:

Lys Ser Lys Val Gly Trp Leu Ile Gln Leu Trp His Lys Lys
1 5 10

(2) INFORMATION FOR SEQ ID NO:22:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 14 amino acids
- (B) TYPE: amino acid
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: misc_feature
- (D) OTHER INFORMATION: "XMP.83"

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 10..12
- (D) OTHER INFORMATION: /label= Substituted-Ala
/note= "Position 6 is beta-1-naphthyl-substituted"

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: C-Terminus
- (D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:22:

Lys Ser Lys Val Gly Ala Leu Ile Gln Leu Phe His Lys Lys
1 5 10

(2) INFORMATION FOR SEQ ID NO:23:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 14 amino acids
- (B) TYPE: amino acid
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: misc_feature
- (D) OTHER INFORMATION: "XMP.85"

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: C-Terminus

(D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:23:

Lys Ser Lys Val Leu Trp Leu Ile Gln Leu Phe His Lys Lys
1 5 10

(2) INFORMATION FOR SEQ ID NO:24:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 14 amino acids
(B) TYPE: amino acid
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:
(A) NAME/KEY: misc_feature
(D) OTHER INFORMATION: "XMP.86"

(ix) FEATURE:
(A) NAME/KEY: Modified-site
(B) LOCATION: C-Terminus
(D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:24:

Lys Ser Lys Val Gly Trp Leu Ile Leu Leu Phe His Lys Lys
1 5 10

(2) INFORMATION FOR SEQ ID NO:25:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 14 amino acids
(B) TYPE: amino acid
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:
(A) NAME/KEY: misc_feature
(D) OTHER INFORMATION: "XMP.37"

(ix) FEATURE:
(A) NAME/KEY: Modified-site
(B) LOCATION: C-Terminus
(D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:25:

Lys Ser Lys Val Gly Trp Leu Ile Gln Leu Phe Leu Lys Lys
1 5 10

(2) INFORMATION FOR SEQ ID NO:26:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 14 amino acids
(B) TYPE: amino acid
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: misc_feature
- (D) OTHER INFORMATION: "XMP.91"

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: C-Terminus
- (D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:26:

Lys Ser Lys Val Gly Trp Leu Ile Phe Leu Phe His Lys Lys
1 5 10

(2) INFORMATION FOR SEQ ID NO:27:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 14 amino acids
- (B) TYPE: amino acid
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: misc_feature
- (D) OTHER INFORMATION: "XMP.92"

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: C-Terminus
- (D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:27:

Lys Ser Lys Val Gly Trp Leu Ile Lys Leu Phe His Lys Lys
1 5 10

(2) INFORMATION FOR SEQ ID NO:28:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 14 amino acids
- (B) TYPE: amino acid
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: misc_feature
- (D) OTHER INFORMATION: "XMP.94"

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: C-Terminus
- (D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:28:

Lys Ser Lys Val Gly Trp Leu Ile Gln Leu Phe Phe Lys Lys

10

(1) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 14 amino acids
(B) TYPE: amino acid
(D) TOPOLOGY: linear

```
(ix) FEATURE:
      (A) NAME/KEY: misc_feature
      (D) OTHER INFORMATION: "XMP.95"
```

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:29;

(2) INFORMATION FOR SEQ ID NO:30:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 14 amino acids
 (B) TYPE: amino acid
 (D) TOPOLOGY: linear

```
(ix) FEATURE:
      (A) NAME/KEY: misc feature
      (D) OTHER INFORMATION: "XMP.96"
```

[illegible]

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:30:

(2) INFORMATION FOR SEQ ID NO:31:

(1) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 14 amino acids
 (B) TYPE: amino acid
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

```
(ix) FEATURE:
      (A) NAME/KEY: misc_feature
      (D) OTHER INFORMATION: "XMP.97"
```

(ix) FEATURE:
 (A) NAME/KEY: Modified-site
 (B) LOCATION: C-Terminus
 (D) OTHER INFORMATION: /label= Amidation
 /note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:31:

Lys Ser Lys Val Lys Trp Leu Ile Gln Leu Phe His Lys Lys
 1 5 10

(2) INFORMATION FOR SEQ ID NO:32:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 14 amino acids
 (B) TYPE: amino acid
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:
 (A) NAME/KEY: misc_feature
 (D) OTHER INFORMATION: "XMP.100"

(ix) FEATURE:
 (A) NAME/KEY: Modified-site
 (B) LOCATION: C-Terminus
 (D) OTHER INFORMATION: /label= Amidation
 /note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:32:

Lys Ser Lys Val Lys Trp Leu Ile Lys Leu Phe His Lys Lys
 1 5 10

(2) INFORMATION FOR SEQ ID NO:33:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 28 amino acids
 (B) TYPE: amino acid
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:
 (A) NAME/KEY: misc_feature
 (D) OTHER INFORMATION: "XMP.101"

(ix) FEATURE:
 (A) NAME/KEY: Modified-site
 (B) LOCATION: C-Terminus
 (D) OTHER INFORMATION: /label= Amidation
 /note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:33:

Lys Ser Lys Val Lys Trp Leu Ile Lys Leu Phe Phe Lys Phe Lys Ser
 1 5 10 15

Lys Val Lys Trp Leu Ile Lys Leu Phe Phe Lys Phe
 20 25

(2) INFORMATION FOR SEQ ID NO:34:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 14 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

- (ix) FEATURE:
 - (A) NAME/KEY: misc_feature
 - (D) OTHER INFORMATION: "XMP.104"

- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: C-Terminus
 - (D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:34:

Lys Ser Lys Val Gly Trp Leu Ile Ser Leu Phe His Lys Lys
1 5 10

(2) INFORMATION FOR SEQ ID NO:35:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 14 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

- (ix) FEATURE:
 - (A) NAME/KEY: misc_feature
 - (D) OTHER INFORMATION: "XMP.106"

- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: C-Terminus
 - (D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:35:

Lys Ser Lys Val Gly Trp Leu Ile Thr Leu Phe His Lys Lys
1 5 10

(2) INFORMATION FOR SEQ ID NO:36:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 14 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

- (ix) FEATURE:
 - (A) NAME/KEY: misc_feature
 - (D) OTHER INFORMATION: "XMP.107"

- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: C-Terminus
 - (D) OTHER INFORMATION: /label= Amidation

/note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:36:

Lys Ser Lys Val Gly Trp Leu Ile Gln Leu Phe Trp Lys Lys
1 5 10

(2) INFORMATION FOR SEQ ID NO:37:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 14 amino acids
- (B) TYPE: amino acid
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: misc_feature
- (D) OTHER INFORMATION: "XMP.108"

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: C-Terminus
- (D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:37:

Lys Ser Lys Val Gly Trp Leu Ile Gln Leu Phe His Lys Trp
1 5 10

(2) INFORMATION FOR SEQ ID NO:38:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 14 amino acids
- (B) TYPE: amino acid
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: misc_feature
- (D) OTHER INFORMATION: "XMP.109"

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 11
- (C) OTHER INFORMATION: /label= Substituted-Ala
/note= "Position 11 is beta-1-naphthyl-substituted."

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: C-Terminus
- (D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:38:

Lys Ser Lys Val Gly Trp Leu Ile Gln Leu Ala His Lys Lys
1 5 10

(2) INFORMATION FOR SEQ ID NO:39:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 14 amino acids
 (B) TYPE: amino acid
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:
 (A) NAME/KEY: misc_feature
 (D) OTHER INFORMATION: "XMP.110"

(ix) FEATURE:
 (A) NAME/KEY: Modified-site
 (B) LOCATION: 12
 (C) OTHER INFORMATION: /label= Substituted-Ala
 /note= "Position 12 is beta-1-naphthyl-substituted."

(ix) FEATURE:
 (A) NAME/KEY: Modified-site
 (B) LOCATION: C-Terminus
 (D) OTHER INFORMATION: /label= Amidation
 /note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:39:

Lys	Ser	Lys	Val	Gly	Trp	Leu	Ile	Gln	Leu	Phe	Ala	Lys	Lys
1				5					10				

(2) INFORMATION FOR SEQ ID NO:40:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 14 amino acids
 (B) TYPE: amino acid
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:
 (A) NAME/KEY: misc_feature
 (D) OTHER INFORMATION: "XMP.111"

(ix) FEATURE:
 (A) NAME/KEY: Modified-site
 (B) LOCATION: 14
 (C) OTHER INFORMATION: /label= Substituted-Ala
 /note= "Position 14 is beta-1-naphthyl-substituted."

(ix) FEATURE:
 (A) NAME/KEY: Modified-site
 (B) LOCATION: C-Terminus
 (D) OTHER INFORMATION: /label= Amidation
 /note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:40:

Lys	Ser	Lys	Val	Gly	Trp	Leu	Ile	Gln	Leu	Phe	His	Lys	Ala
1				5					10				

(2) INFORMATION FOR SEQ ID NO:41:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 14 amino acids
 (B) TYPE: amino acid

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

(A) NAME/KEY: misc_feature
(D) OTHER INFORMATION: "XMP.113"

(ix) FEATURE:

(A) NAME/KEY: Modified-site
(B) LOCATION: C-Terminus
(D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:41:

Lys Ser Lys Val Gly Trp Leu Ile Gln Phe Phe His Lys Lys
1 5 10

(2) INFORMATION FOR SEQ ID NO:42:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 14 amino acids
(B) TYPE: amino acid
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

(A) NAME/KEY: misc_feature
(D) OTHER INFORMATION: "XMP.116"

(ix) FEATURE:

(A) NAME/KEY: Modified-site
(B) LOCATION: 6
(C) OTHER INFORMATION: /label= Substituted-Ala
/note= "Position 6 is beta-1-naphthyl-substituted."

(ix) FEATURE:

(A) NAME/KEY: Modified-site
(B) LOCATION: C-Terminus
(D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:42:

Lys Ser Lys Val Lys Ala Leu Ile Gln Leu Phe His Lys Lys
1 5 10

(2) INFORMATION FOR SEQ ID NO:43:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 14 amino acids
(B) TYPE: amino acid
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

(A) NAME/KEY: misc_feature
(D) OTHER INFORMATION: "XMP.123"

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 9
- (C) OTHER INFORMATION: /label= Substituted-Phe
/note= "The phenylalanine at position 9 is
p-amino-substituted."

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: C-Terminus
- (D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:43:

Lys Ser Lys Val Gly Trp Leu Ile Phe Leu Phe His Lys Lys
1 5 10

(2) INFORMATION FOR SEQ ID NO:44:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 14 amino acids
- (B) TYPE: amino acid
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: misc_feature
- (D) OTHER INFORMATION: "XMP.124"

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: C-Terminus
- (D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:44:

Lys Ser Lys Val Lys Trp Leu Ile Gln Leu Trp His Lys Lys
1 5 10

(2) INFORMATION FOR SEQ ID NO:45:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 14 amino acids
- (B) TYPE: amino acid
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: misc_feature
- (D) OTHER INFORMATION: "XMP.125"

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: C-Terminus
- (D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:45:

Lys Ser Lys Val Gly Trp Leu Ile Tyr Leu Phe His Lys Lys

1 5 10

(2) INFORMATION FOR SEQ ID NO:46:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 14 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (ix) FEATURE:
 - (A) NAME/KEY: misc_feature
 - (D) OTHER INFORMATION: "XMP.126"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 6
 - (C) OTHER INFORMATION: /label= D-Trp
/note= "Position 6 is D-tryptophan."
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: C-Terminus
 - (D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:46:

Lys	Ser	Lys	Val	Gly	Trp	Leu	Ile	Gln	Leu	Phe	His	Lys	Lys
1				5					10				

(2) INFORMATION FOR SEQ ID NO:47:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 14 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (ix) FEATURE:
 - (A) NAME/KEY: misc_feature
 - (D) OTHER INFORMATION: "XMP.127"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: C-Terminus
 - (D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:47:

Lys	Ser	Lys	Val	Gly	Phe	Leu	Ile	Gln	Leu	Phe	His	Lys	Lys
1				5					10				

(2) INFORMATION FOR SEQ ID NO:48:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 14 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: misc feature
- (D) OTHER INFORMATION: "XMP.128"

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 6
- (C) OTHER INFORMATION: /label= D-Phe
/note= "Position 6 is D-phenylalanine."

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: C-Terminus
- (D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:48:

Lys	Ser	Lys	Val	Gly	Phe	Leu	Ile	Gln	Leu	Phe	His	Lys	Lys
1				5					10				

(2) INFORMATION FOR SEQ ID NO:49:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 14 amino acids
- (B) TYPE: amino acid
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: misc feature
- (D) OTHER INFORMATION: "XMP.129"

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 6
- (C) OTHER INFORMATION: /label= Substituted-Ala
/note= "Position 6 is D-1-beta-1-naphthyl-substituted."

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: C-Terminus
- (D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:49:

Lys	Ser	Lys	Val	Gly	Ala	Leu	Ile	Gln	Leu	Phe	His	Lys	Lys
1				5					10				

(2) INFORMATION FOR SEQ ID NO:50:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 14 amino acids
- (B) TYPE: amino acid
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

(A) NAME/KEY: misc_feature
(D) OTHER INFORMATION: "XMP.130"

(ix) FEATURE:
(A) NAME/KEY: Modified-site
(B) LOCATION: 6
(C) OTHER INFORMATION: /label= Substituted-Ala
/note= "Position 6 is beta-2-naphthyl-substituted."

(ix) FEATURE:
(A) NAME/KEY: Modified-site
(B) LOCATION: C-Terminus
(D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:50:

Lys Ser Lys Val Gly Ala Leu Ile Gln Leu Phe His Lys Lys
1 5 10

(2) INFORMATION FOR SEQ ID NO:51:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 14 amino acids
(B) TYPE: amino acid
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:
(A) NAME/KEY: misc_feature
(D) OTHER INFORMATION: "XMP.131"

(ix) FEATURE:
(A) NAME/KEY: Modified-site
(B) LOCATION: 6
(C) OTHER INFORMATION: /label= Substituted-Ala
/note= "Position 6 is D-beta-2-naphthyl-substituted."

(ix) FEATURE:
(A) NAME/KEY: Modified-site
(B) LOCATION: C-Terminus
(D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:51:

Lys Ser Lys Val Gly Ala Leu Ile Gln Leu Phe His Lys Lys
1 5 10

(2) INFORMATION FOR SEQ ID NO:52:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 14 amino acids
(B) TYPE: amino acid
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:
(A) NAME/KEY: misc_feature
(D) OTHER INFORMATION: "XMP.132"

- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 6
 - (C) OTHER INFORMATION: /label= Substituted-Ala
/note= "The alanine at position 6 is
pyridyl-substituted."

- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: C-Terminus
 - (D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:52:

Lys Ser Lys Val Gly Ala Leu Ile Gln Leu Phe His Lys Lys
 1 5 10

- (2) INFORMATION FOR SEQ ID NO:53:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 14 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: peptide

- (ix) FEATURE:
 - (A) NAME/KEY: misc_feature
 - (D) OTHER INFORMATION: "KMP.133"

- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 6
 - (C) OTHER INFORMATION: /label= Substituted-Phe
/note= "Position 6 is para-amino-substituted."

- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: C-Terminus
 - (D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:53:

Lys Ser Lys Val Gly Phe Leu Ile Gln Leu Phe His Lys Lys
 1 5 10

- (2) INFORMATION FOR SEQ ID NO:54:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 14 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: peptide

- (ix) FEATURE:
 - (A) NAME/KEY: misc_feature
 - (D) OTHER INFORMATION: "KMP.134"

- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site

- (B) LOCATION: 5
- (C) OTHER INFORMATION: /label= Substituted-Phe
/note= "Position 5 is para-amino-substituted."

- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: C-Terminus
 - (D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:54:

Lys Ser Lys Val Phe Trp Leu Ile Gln Leu Phe His Lys Lys
1 5 10

- (2) INFORMATION FOR SEQ ID NO:55:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 14 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: peptide

- (ix) FEATURE:
 - (A) NAME/KEY: misc_feature
 - (D) OTHER INFORMATION: "XMP.135"

- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: C-Terminus
 - (D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:55:

Lys Ser Lys Val Gly Lys Leu Ile Gln Leu Phe His Lys Lys
1 5 10

- (2) INFORMATION FOR SEQ ID NO:56:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 16 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: circular

- (ii) MOLECULE TYPE: peptide

- (ix) FEATURE:
 - (A) NAME/KEY: misc_feature
 - (D) OTHER INFORMATION: "XMP.137"

- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: C-Terminus
 - (D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:56:

Cys Lys Ser Lys Val Gly Trp Leu Ile Gln Leu Phe His Lys Lys Cys
1 5 10 15

(2) INFORMATION FOR SEQ ID NO:57:

- ```
(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 14 amino acids
 (B) TYPE: amino acid
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:
 (A) NAME/KEY: misc_feature
 (D) OTHER INFORMATION: "XMP.138"

(ix) FEATURE:
 (A) NAME/KEY: Modified-site
 (B) LOCATION: C-Terminus
 (D) OTHER INFORMATION: /label= Amidation
 /note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:57:

Lys Ser Lys Val Lys Phe Leu Ile Gln Leu Phe His Lys Lys
1 5 10
```

(2) INFORMATION FOR SEQ ID NO:58:

- ```
(i) SEQUENCE CHARACTERISTICS:
    (A) LENGTH: 14 amino acids
    (B) TYPE: amino acid
    (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:
    (A) NAME/KEY: misc_feature
    (D) OTHER INFORMATION: "KMP.139"

(ix) FEATURE:
    (A) NAME/KEY: Modified-site
    (B) LOCATION: C-Terminus
    (D) OTHER INFORMATION: /label= Amidation
                           /note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:58:

Lys Ser Lys Val Gly Tyr Leu Ile Gln Leu Phe His Lys Lys
1          5          10
```

(2) INFORMATION FOR SEQ ID NO:59:

- ```
(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 14 amino acids
 (B) TYPE: amino acid
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:
 (A) NAME/KEY: misc_feature
 (D) OTHER INFORMATION: "XMP.142"

(ix) FEATURE:
 (A) NAME/KEY: Modified-site
```

- (B) LOCATION: C-Terminus
- (D) OTHER INFORMATION: /label= Amidation  
/note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:59:

Lys Ser Lys Val Gly Trp Leu Ile Gln Trp Phe His Lys Lys  
1                      5                      10

(2) INFORMATION FOR SEQ ID NO:60:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 14 amino acids
  - (B) TYPE: amino acid
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (ix) FEATURE:
  - (A) NAME/KEY: misc\_feature
  - (D) OTHER INFORMATION: "XMP.143"
- (ix) FEATURE:
  - (A) NAME/KEY: Modified-site
  - (B) LOCATION: 10
  - (C) OTHER INFORMATION: /label= Substituted-Ala  
/note= "Position 10 is beta-1-naphthyl-substituted."
- (ix) FEATURE:
  - (A) NAME/KEY: Modified-site
  - (B) LOCATION: C-Terminus
  - (D) OTHER INFORMATION: /label= Amidation  
/note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:60:

Lys Ser Lys Val Gly Trp Leu Ile Gln Ala Phe His Lys Lys  
1                      5                      10

(2) INFORMATION FOR SEQ ID NO:61:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 14 amino acids
  - (B) TYPE: amino acid
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (ix) FEATURE:
  - (A) NAME/KEY: misc\_feature
  - (D) OTHER INFORMATION: "XMP.144"
- (ix) FEATURE:
  - (A) NAME/KEY: Modified-site
  - (B) LOCATION: 6
  - (C) OTHER INFORMATION: /label= Substituted-Ala  
/note= "The alanine at position 6 is  
cyclohexyl-substituted."
- (ix) FEATURE:
  - (A) NAME/KEY: Modified-site
  - (B) LOCATION: C-Terminus
  - (D) OTHER INFORMATION: /label= Amidation

/note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:61:

Lys Ser Lys Val Gly Ala Leu Ile Gln Leu Phe His Lys Lys  
1 5 10

(2) INFORMATION FOR SEQ ID NO:62:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 14 amino acids
- (B) TYPE: amino acid
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: misc\_feature
- (D) OTHER INFORMATION: "XMP.146"

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 12
- (C) OTHER INFORMATION: /label= Substituted-Ala  
/note= "Position 12 is beta-1-naphthyl-substituted."

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 14
- (C) OTHER INFORMATION: /label= Substituted-Ala  
/note= "Position 14 is beta-1-naphthyl-substituted."

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: C-Terminus
- (D) OTHER INFORMATION: /label= Amidation  
/note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:62:

Lys Ser Lys Val Gly Trp Leu Ile Gln Leu Phe Ala Lys Ala  
1 5 10

(2) INFORMATION FOR SEQ ID NO:63:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 14 amino acids
- (B) TYPE: amino acid
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: misc\_feature
- (D) OTHER INFORMATION: "XMP.148"

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 6
- (C) OTHER INFORMATION: /label= Substituted-Ala  
/note= "Position 6 is beta-1-naphthyl-substituted."

(ix) FEATURE:

20150101 09:00:00

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 12
- (C) OTHER INFORMATION: /label= Substituted-Ala  
/note= "Position 12 is beta-1-naphthyl-substituted."

## (ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: C-Terminus
- (D) OTHER INFORMATION: /label= Amidation  
/note= "The C-Terminus is Amidated"

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:63:

Lys Ser Lys Val Gly Ala Leu Ile Gln Leu Phe Ala Lys Lys  
1 5 10

## (2) INFORMATION FOR SEQ ID NO:64:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 14 amino acids
- (B) TYPE: amino acid
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: peptide

## (ix) FEATURE:

- (A) NAME/KEY: misc\_feature
- (D) OTHER INFORMATION: "XMP.161"

## (ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: C-Terminus
- (D) OTHER INFORMATION: /label= Amidation  
/note= "The C-Terminus is Amidated"

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:64:

Lys Ser Lys Val Lys Ala Leu Ile Gln Leu Phe His Lys Lys  
1 5 10

## (2) INFORMATION FOR SEQ ID NO:65:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 14 amino acids
- (B) TYPE: amino acid
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: peptide

## (ix) FEATURE:

- (A) NAME/KEY: misc\_feature
- (D) OTHER INFORMATION: "XMP.166"

## (ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: C-Terminus
- (D) OTHER INFORMATION: /label= Amidation  
/note= "The C-Terminus is Amidated"

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:65:

Lys Ser Lys Val Gly Val Leu Ile Gln Leu Phe His Lys Lys  
1 5 10

(2) INFORMATION FOR SEO ID NO:67:

- ```
(i) SEQUENCE CHARACTERISTICS:
  (A) LENGTH: 14 amino acids
  (B) TYPE: amino acid
  (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:
  (A) NAME/KEY: misc_feature
  (D) OTHER INFORMATION: "XMP.223"

(ix) FEATURE:
  (A) NAME/KEY: Modified-site
  (B) LOCATION: 6 & 10
  (C) OTHER INFORMATION: /label= Substituted-Ala
                        /note= "Positions 6 & 10 are beta-1-naphthyl-substituted."

(ix) FEATURE:
  (A) NAME/KEY: Modified-site
  (B) LOCATION: C-Terminus
  (D) OTHER INFORMATION: /label= Amidation
                        /note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:67:

Lys Ser Lys Val Gly Ala Leu Ile Gln Ala Phe His Lys Lys
1          5          10
```

(i) SEQUENCE CHARACTERISTICS:

- (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 14 amino acids
- (B) TYPE: amino acid
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: misc_feature
- (D) OTHER INFORMATION: "XMP.224"

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 6
- (C) OTHER INFORMATION: /label= Substituted-Ala
/note= "Position 6 is beta-1-naphthyl-substituted."

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 9
- (C) OTHER INFORMATION: /label= Substituted-Phe
/note= "Position 9 is para-amino-substituted."

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: C-Terminus
- (D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:68:

Lys Ser Lys Val Gly Ala Leu Ile Phe Leu Phe His Lys Lys
1 5 10

(2) INFORMATION FOR SEQ ID NO:69:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 14 amino acids
- (B) TYPE: amino acid
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: misc_feature
- (D) OTHER INFORMATION: "XMP.225"

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 6
- (C) OTHER INFORMATION: /label= Substituted-Ala
/note= "Position 6 is beta-1-naphthyl-substituted."

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 5
- (C) OTHER INFORMATION: /label= Substituted-Phe
/note= "Position 5 is para-amino-substituted."

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: C-Terminus
- (D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:69:

Lys Ser Lys Val Phe Ala Leu Ile Gln Leu Phe His Lys Lys
1 5 10

(2) INFORMATION FOR SEQ ID NO:70:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 14 amino acids
- (B) TYPE: amino acid
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: misc_feature
- (D) OTHER INFORMATION: "XMP.226"

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 6
- (C) OTHER INFORMATION: /label= Substituted-Ala
/note= "Position 6 is beta-1-naphthyl-substituted."

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: C-Terminus
- (D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:70:

Lys Ser Lys Val Gly Ala Leu Ile Gln Leu Trp His Lys Lys
1 5 10

(2) INFORMATION FOR SEQ ID NO:71:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 14 amino acids
- (B) TYPE: amino acid
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: misc_feature
- (D) OTHER INFORMATION: "XMP.227"

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 10 & 14
- (C) OTHER INFORMATION: /label= Substituted-Ala
/note= "Positions 10 & 14 are beta-1-naphthyl-substituted."

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: C-Terminus
- (D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:71:

Lys Ser Lys Val Gly Trp Leu Ile Gln Ala Phe His Lys Ala

1

5

10

(2) INFORMATION FOR SEQ ID NO:72:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 14 amino acids
- (B) TYPE: amino acid
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: misc_feature
- (D) OTHER INFORMATION: "XMP.228"

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 9
- (C) OTHER INFORMATION: /label= Substituted-Phe
/note= "Position 9 is para-amino-substituted."

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 14
- (C) OTHER INFORMATION: /label= Substituted-Ala
/note= "Position 14 is beta-1-naphthyl-substituted."

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: C-Terminus
- (D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:72:

Lys Ser Lys Val Gly Trp Leu Ile Phe Leu Phe His Lys Ala
1 5 10

(2) INFORMATION FOR SEQ ID NO:73:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 14 amino acids
- (B) TYPE: amino acid
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: misc_feature
- (D) OTHER INFORMATION: "XMP.229"

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 5
- (C) OTHER INFORMATION: /label= Substituted-Ala
/note= "Position 5 is para-amino-substituted."

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 14
- (C) OTHER INFORMATION: /label= Substituted-Ala
/note= "Position 14 is beta-1-naphthyl-substituted."

(ix) FEATURE:
 (A) NAME/KEY: Modified-site
 (B) LOCATION: C-Terminus
 (D) OTHER INFORMATION: /label= Amidation
 /note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:73:

Lys Ser Lys Val Phe Trp Leu Ile Gln Leu Phe His Lys Ala
 1 5 10

(2) INFORMATION FOR SEQ ID NO:74:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 14 amino acids
 (B) TYPE: amino acid
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:
 (A) NAME/KEY: misc_feature
 (D) OTHER INFORMATION: "XMP.230"

(ix) FEATURE:
 (A) NAME/KEY: Modified-site
 (B) LOCATION: 14
 (C) OTHER INFORMATION: /label= Substituted-Ala
 /note= "Position 14 is beta-1-naphthyl-substituted."

(ix) FEATURE:
 (A) NAME/KEY: Modified-site
 (B) LOCATION: C-Terminus
 (D) OTHER INFORMATION: /label= Amidation
 /note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:74:

Lys Ser Lys Val Gly Trp Leu Ile Gln Leu Trp His Lys Ala
 1 5 10

(2) INFORMATION FOR SEQ ID NO:75:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 14 amino acids
 (B) TYPE: amino acid
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:
 (A) NAME/KEY: misc_feature
 (D) OTHER INFORMATION: "XMP.231"

(ix) FEATURE:
 (A) NAME/KEY: Modified-site
 (B) LOCATION: 10 & 12
 (C) OTHER INFORMATION: /label= Substituted-Ala
 /note= "Positions 10 & 12 are beta-1-naphthyl-substituted."

(ix) FEATURE:
 (A) NAME/KEY: Modified-site
 (B) LOCATION: C-Terminus

(D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:75:

Lys Ser Lys Val Gly Trp Leu Ile Gln Ala Phe Ala Lys Lys
1 5 10

(2) INFORMATION FOR SEQ ID NO:76:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 14 amino acids
- (B) TYPE: amino acid
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: misc_feature
- (D) OTHER INFORMATION: "KMP.232"

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 9
- (C) OTHER INFORMATION: /label= Substituted-Phe
/note= "Position 9 is para-amino-substituted."

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 12
- (C) OTHER INFORMATION: /label= Substituted-Ala
/note= "Position 12 is beta-1-naphthyl-substituted."

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: C-Terminus
- (D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:76:

Lys Ser Lys Val Gly Trp Leu Ile Phe Leu Phe Ala Lys Lys
1 5 10

(2) INFORMATION FOR SEQ ID NO:77:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 14 amino acids
- (B) TYPE: amino acid
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: misc_feature
- (D) OTHER INFORMATION: "KMP.233"

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 5
- (C) OTHER INFORMATION: /label= Substituted-Phe
/note= "Position 5 is para-amino-substituted."

(ix) FEATURE:
 (A) NAME/KEY: Modified-site
 (B) LOCATION: 12
 (C) OTHER INFORMATION: /label= Substituted-Ala
 /note= "Position 12 is beta-1-naphthyl-substituted."

(ix) FEATURE:
 (A) NAME/KEY: Modified-site
 (B) LOCATION: C-Terminus
 (D) OTHER INFORMATION: /label= Amidation
 /note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:77:

Lys Ser Lys Val Phe Trp Leu Ile Gln Leu Phe Ala Lys Lys -
 1 5 10

(2) INFORMATION FOR SEQ ID NO:78:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 14 amino acids
 (B) TYPE: amino acid
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:
 (A) NAME/KEY: misc_feature
 (D) OTHER INFORMATION: "XMP.234"

(ix) FEATURE:
 (A) NAME/KEY: Modified-site
 (B) LOCATION: 12
 (C) OTHER INFORMATION: /label= Substituted-Ala
 /note= "Position 12 is beta-1-naphthyl-substituted."

(ix) FEATURE:
 (A) NAME/KEY: Modified-site
 (B) LOCATION: C-Terminus
 (D) OTHER INFORMATION: /label= Amidation
 /note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:78:

Lys Ser Lys Val Gly Trp Leu Ile Gln Leu Trp Ala Lys Lys
 1 5 10

(2) INFORMATION FOR SEQ ID NO:79:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 14 amino acids
 (B) TYPE: amino acid
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:
 (A) NAME/KEY: misc_feature
 (D) OTHER INFORMATION: "XMP.235"

(ix) FEATURE:
 (A) NAME/KEY: Modified-site
 (B) LOCATION: 9

(C) OTHER INFORMATION: /label= Substituted-Phe
/note= "Position 9 is para-amino-substituted."

(ix) FEATURE:
(A) NAME/KEY: Modified-site
(B) LOCATION: 10
(C) OTHER INFORMATION: /label= Substituted-Ala
/note= "Position 10 is beta-1-naphthyl-substituted."

(ix) FEATURE:
(A) NAME/KEY: Modified-site
(B) LOCATION: C-Terminus
(D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:79:

Lys Ser Lys Val Gly Trp Leu Ile Phe Ala Phe His Lys Lys
1 5 10

(2) INFORMATION FOR SEQ ID NO:80:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 14 amino acids
(B) TYPE: amino acid
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:
(A) NAME/KEY: misc feature
(D) OTHER INFORMATION: "XMP.236"

(ix) FEATURE:
(A) NAME/KEY: Modified-site
(B) LOCATION: 5
(C) OTHER INFORMATION: /label= Substituted-Phe
/note= "Position 5 is para-amino-substituted."

(ix) FEATURE:
(A) NAME/KEY: Modified-site
(B) LOCATION: 10
(C) OTHER INFORMATION: /label= Substituted-Ala
/note= "Position 10 is beta-1-naphthyl-substituted."

(ix) FEATURE:
(A) NAME/KEY: Modified-site
(B) LOCATION: C-Terminus
(D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:80:

Lys Ser Lys Val Phe Trp Leu Ile Gln Ala Phe His Lys Lys
1 5 10

(2) INFORMATION FOR SEQ ID NO:81:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 14 amino acids
(B) TYPE: amino acid
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: misc_feature
- (D) OTHER INFORMATION: "XMP.237"

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 10
- (C) OTHER INFORMATION: /label= Substituted-Ala
/note= "Position 10 is beta-1-naphthyl-substituted."

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: C-Terminus
- (D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:81:

Lys Ser Lys Val Gly Trp Leu Ile Gln Ala Trp His Lys Lys
1 5 10

(2) INFORMATION FOR SEQ ID NO:82:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 14 amino acids
- (B) TYPE: amino acid
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: misc_feature
- (D) OTHER INFORMATION: "XMP.238"

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 5
- (C) OTHER INFORMATION: /label= Substituted-Phe
/note= "Position 5 is para-amino-substituted."

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 9
- (C) OTHER INFORMATION: /label= Substituted-Phe
/note= "Position 9 is para-amino-substituted."

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: C-Terminus
- (D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:82:

Lys Ser Lys Val Phe Trp Leu Ile Phe Leu Phe His Lys Lys
1 5 10

(2) INFORMATION FOR SEQ ID NO:83:

(1) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 14 amino acids

- (B) TYPE: amino acid
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: misc_feature
- (D) OTHER INFORMATION: "KMP.239"

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 9
- (C) OTHER INFORMATION: /label= Substituted-Phe
/note= "Position 9 is para-amino-substituted."

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: C-Terminus
- (D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:83:

Lys Ser Lys Val Gly Trp Leu Ile Phe Leu Trp His Lys Lys
1 5 10

(2) INFORMATION FOR SEQ ID NO:84:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 14 amino acids
- (B) TYPE: amino acid
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: misc_feature
- (D) OTHER INFORMATION: "KMP.240"

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 5
- (C) OTHER INFORMATION: /label= Substituted-Phe
/note= "Position 5 is para-amino-substituted."

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: C-Terminus
- (D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:84:

Lys Ser Lys Val Phe Trp Leu Ile Gln Leu Trp His Lys Lys
1 5 10

(2) INFORMATION FOR SEQ ID NO:85:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 14 amino acids
- (B) TYPE: amino acid
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: misc_feature
- (D) OTHER INFORMATION: "XMP.241"

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: C-Terminus
- (D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:85:

Lys Ser Lys Val Gly Trp Leu Ile Leu Leu Trp His Lys Lys
1 5 10

(2) INFORMATION FOR SEQ ID NO:86:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 14 amino acids
- (B) TYPE: amino acid
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: misc_feature
- (D) OTHER INFORMATION: "XMP.242"

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 6
- (C) OTHER INFORMATION: /label= Substituted-Ala
/note= "Position 6 is D-beta-2-naphthyl-substituted."

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: C-Terminus
- (D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:86:

Lys Ser Lys Val Gly Ala Leu Ile Leu Leu Phe His Lys Lys
1 5 10

(2) INFORMATION FOR SEQ ID NO:87:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 14 amino acids
- (B) TYPE: amino acid
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: misc_feature
- (D) OTHER INFORMATION: "XMP.243"

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 6

(C) OTHER INFORMATION: /label= Substituted-Ala
/note= "Position 6 is D-beta-2-naphthyl-substituted."

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: C-Terminus
- (D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:87:

Lys Ser Lys Val Gly Ala Leu Ile Gln Leu Trp His Lys Lys
1 5 10

(2) INFORMATION FOR SEQ ID NO:88:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 14 amino acids
- (B) TYPE: amino acid
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: misc_feature
- (D) OTHER INFORMATION: "XMP.244"

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 6
- (C) OTHER INFORMATION: /label= Substituted-Ala
/note= "Position 6 is D-beta-2-naphthyl-substituted."

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: C-Terminus
- (D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:88:

Lys Ser Lys Val Gly Ala Leu Ile Leu Trp His Lys Lys
1 5 10

(2) INFORMATION FOR SEQ ID NO:89:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 14 amino acids
- (B) TYPE: amino acid
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: misc_feature
- (D) OTHER INFORMATION: "XMP.249"

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: C-Terminus
- (D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:89:

Lys Ser Lys Val Gly Gly Leu Ile Gln Leu Phe His Lys Lys
1 5 10

(2) INFORMATION FOR SEQ ID NO:90:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 14 amino acids
- (B) TYPE: amino acid
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: misc_feature
- (D) OTHER INFORMATION: "XMP.250"

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: C-Terminus
- (D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:90:

Lys Ser Lys Val Gly Leu Leu Ile Gln Leu Phe His Lys Lys
1 5 10

(2) INFORMATION FOR SEQ ID NO:91:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 14 amino acids
- (B) TYPE: amino acid
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: misc_feature
- (D) OTHER INFORMATION: "XMP.251"

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: C-Terminus
- (D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:91:

Lys Ser Lys Val Gly Ile Leu Ile Gln Leu Phe His Lys Lys
1 5 10

(2) INFORMATION FOR SEQ ID NO:92:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 14 amino acids
- (B) TYPE: amino acid
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: misc_feature
- (D) OTHER INFORMATION: "XMP.252"

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 6
- (D) OTHER INFORMATION: /label= D-Ala
/note= "Position 6 is D-alanine"

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: C-Terminus
- (D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:92:

Lys Ser Lys Val Gly Ala Leu Ile Gln Leu Phe His Lys Lys
1 5 10

(2) INFORMATION FOR SEQ ID NO:93:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 14 amino acids
- (B) TYPE: amino acid
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: misc_feature
- (D) OTHER INFORMATION: "XMP.253"

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 6
- (D) OTHER INFORMATION: /label= D-Val
/note= "Position 6 is D-valine"

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: C-Terminus
- (D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:93:

Lys Ser Lys Val Gly Val Leu Ile Gln Leu Phe His Lys Lys
1 5 10

(2) INFORMATION FOR SEQ ID NO:94:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 14 amino acids
- (B) TYPE: amino acid
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: misc_feature
- (D) OTHER INFORMATION: "XMP.254"

(ix) FEATURE:
 (A) NAME/KEY: Modified-site
 (B) LOCATION: 6
 (D) OTHER INFORMATION: /label= beta-Ala
 /note= "Position 6 is beta-alanine"

(ix) FEATURE:
 (A) NAME/KEY: Modified-site
 (B) LOCATION: C-Terminus
 (D) OTHER INFORMATION: /label= Amidation
 /note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:94:

Lys Ser Lys Val Gly Ala Leu Ile Gln Leu Phe His Lys Lys
 1 5 10

(2) INFORMATION FOR SEQ ID NO:95:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 14 amino acids
 (B) TYPE: amino acid
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:
 (A) NAME/KEY: misc_feature
 (D) OTHER INFORMATION: "XMP.255"

(ix) FEATURE:
 (A) NAME/KEY: Modified-site
 (B) LOCATION: 6
 (D) OTHER INFORMATION: /label= alpha-aba
 /note= "Position 6 is alpha-aminobutyric acid"

(ix) FEATURE:
 (A) NAME/KEY: Modified-site
 (B) LOCATION: C-Terminus
 (D) OTHER INFORMATION: /label= Amidation
 /note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:95:

Lys Ser Lys Val Gly Xaa Leu Ile Gln Leu Phe His Lys Lys
 1 5 10

(2) INFORMATION FOR SEQ ID NO:96:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 14 amino acids
 (B) TYPE: amino acid
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:
 (A) NAME/KEY: misc_feature
 (D) OTHER INFORMATION: "XMP.256"

(ix) FEATURE:
 (A) NAME/KEY: Modified-site
 (B) LOCATION: 6

(D) OTHER INFORMATION: /label= gaba
/note= "Position 6 is gamma-aminobutyric acid"

(ix) FEATURE:
(A) NAME/KEY: Modified-site
(B) LOCATION: C-Terminus
(D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:96:

Lys Ser Lys Val Gly Xaa Leu Ile Gln Leu Phe His Lys Lys
1 5 10

(2) INFORMATION FOR SEQ ID NO:97:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 14 amino acids
(B) TYPE: amino acid
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:
(A) NAME/KEY: misc_feature
(D) OTHER INFORMATION: "XMP.257"

(ix) FEATURE:
(A) NAME/KEY: Modified-site
(B) LOCATION: 6
(D) OTHER INFORMATION: /label= α -methyl-A
/note= "Position 6 is alpha-Methyl-alanine"

(ix) FEATURE:
(A) NAME/KEY: Modified-site
(B) LOCATION: C-Terminus
(D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:97:

Lys Ser Lys Val Gly Ala Leu Ile Gln Leu Phe His Lys Lys
1 5 10

(2) INFORMATION FOR SEQ ID NO:98:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 14 amino acids
(B) TYPE: amino acid
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:
(A) NAME/KEY: misc_feature
(D) OTHER INFORMATION: "XMP.258"

(ix) FEATURE:
(A) NAME/KEY: Modified-site
(B) LOCATION: 6
(D) OTHER INFORMATION: /label= t-butyl-G
/note= "Position 6 is tert-butyl-glycine"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:98:

(2) INFORMATION FOR SEQ ID NO:99:

(ii) MOLECULE TYPE: peptide

[illegible][illegible]

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:99:

(2) INFORMATION FOR SEQ ID NO:100:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 14 amino acids
(B) TYPE: amino acid
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

```
(ix) FEATURE:
      (A) NAME/KEY: misc_feature
      (D) OTHER INFORMATION: "KMP.260"
```

[illegible]

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(ix) FEATURE:
      (A) NAME/KEY: Modified-site
      (B) LOCATION: C-Terminus
```

(D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:100:

Lys Ser Lys Val Gly Val Leu Ile Gln Leu Phe His Lys Lys
1 5 10

(2) INFORMATION FOR SEQ ID NO:101:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 14 amino acids
(B) TYPE: amino acid
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

(A) NAME/KEY: misc_feature
(D) OTHER INFORMATION: "XMP.261"

(ix) FEATURE:

(A) NAME/KEY: Modified-site
(B) LOCATION: 6
(D) OTHER INFORMATION: /label= N-methyl-L
/note= "Position 6 is N-Methyl-leucine"

(ix) FEATURE:

(A) NAME/KEY: Modified-site
(B) LOCATION: C-Terminus
(D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:101:

Lys Ser Lys Val Gly Leu Leu Ile Gln Leu Phe His Lys Lys
1 5 10

(2) INFORMATION FOR SEQ ID NO:102:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 14 amino acids
(B) TYPE: amino acid
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

(A) NAME/KEY: misc_feature
(D) OTHER INFORMATION: "XMP.262"

(ix) FEATURE:

(A) NAME/KEY: Modified-site
(B) LOCATION: C-Terminus
(D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:102:

Lys Ser Lys Val Gly Trp Leu Ile Asn Leu Phe His Lys Lys
1 5 10

(2) INFORMATION FOR SEQ ID NO:103:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 14 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (ix) FEATURE:
 - (A) NAME/KEY: misc_feature
 - (D) OTHER INFORMATION: "XMP.263"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: C-Terminus
 - (D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:103:

Lys Ser Lys Val Gly Trp Leu Ile Glu Leu Phe His Lys Lys

1
5
10

(2) INFORMATION FOR SEQ ID NO:104:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 14 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (ix) FEATURE:
 - (A) NAME/KEY: misc_feature
 - (D) OTHER INFORMATION: "XMP.264"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: C-Terminus
 - (D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:104:

Lys Ser Lys Val Gly Trp Leu Ile Asp Leu Phe His Lys Lys

1
5
10

(2) INFORMATION FOR SEQ ID NO:105:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 14 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (ix) FEATURE:
 - (A) NAME/KEY: misc_feature
 - (D) OTHER INFORMATION: "XMP.265"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: C-Terminus
 - (D) OTHER INFORMATION: /label= Amidation

/note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:105:

Lys Ser Lys Val Gly Trp Leu Ile Arg Leu Phe His Lys Lys
1 5 10

(2) INFORMATION FOR SEQ ID NO:106:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 14 amino acids
- (B) TYPE: amino acid
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: misc_feature
- (D) OTHER INFORMATION: "XMP.266"

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: C-Terminus
- (D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:106:

Lys Ser Lys Val Lys Val Leu Ile Gln Leu Phe His Lys Lys
1 5 10

(2) INFORMATION FOR SEQ ID NO:107:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 14 amino acids
- (B) TYPE: amino acid
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: misc_feature
- (D) OTHER INFORMATION: "XMP.267"

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: C-Terminus
- (D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:107:

Lys Ser Lys Val Lys Trp Ala Ile Gln Leu Phe His Lys Lys
1 5 10

(2) INFORMATION FOR SEQ ID NO:108:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 14 amino acids
- (B) TYPE: amino acid
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:
 (A) NAME/KEY: misc_feature
 (D) OTHER INFORMATION: "XMP.268"

(ix) FEATURE:
 (A) NAME/KEY: Modified-site
 (B) LOCATION: C-Terminus
 (D) OTHER INFORMATION: /label= Amidation
 /note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:108:

Lys Ser Lys Val Gly Val Ala Ile Gln Leu Phe His Lys Lys
 1 5 10

(2) INFORMATION FOR SEQ ID NO:109:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 14 amino acids
 (B) TYPE: amino acid
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:
 (A) NAME/KEY: misc_feature
 (D) OTHER INFORMATION: "XMP.269"

(ix) FEATURE:
 (A) NAME/KEY: Modified-site
 (B) LOCATION: C-Terminus
 (D) OTHER INFORMATION: /label= Amidation
 /note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:109:

Lys Ser Lys Val Lys Val Ala Ile Gln Leu Phe His Lys Lys
 1 5 10

(2) INFORMATION FOR SEQ ID NO:110:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 28 amino acids
 (B) TYPE: amino acid
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:
 (A) NAME/KEY: misc_feature
 (D) OTHER INFORMATION: "XMP.270"

(ix) FEATURE:
 (A) NAME/KEY: Modified-site
 (B) LOCATION: C-Terminus
 (D) OTHER INFORMATION: /label= Amidation
 /note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:110:

Lys Ser Lys Val Gly Trp Leu Ile Leu Leu Phe His Lys Lys Lys Ser
 1 5 10 15

Lys Val Gly Trp Leu Ile Gln Leu Phe His Lys Lys
 20 25

(2) INFORMATION FOR SEQ ID NO:111:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 28 amino acids
- (B) TYPE: amino acid
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: misc feature
- (D) OTHER INFORMATION: "XMP.271"

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: C-Terminus
- (D) OTHER INFORMATION: /label= Amidation
 /note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:111:

Lys Ser Lys Val Gly Trp Leu Ile Gln Leu Phe His Lys Lys Lys Ser
 1 5 10 15

Lys Val Gly Trp Leu Ile Leu Leu Phe His Lys Lys
 20 25

(2) INFORMATION FOR SEQ ID NO:112:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 28 amino acids
- (B) TYPE: amino acid
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: misc feature
- (D) OTHER INFORMATION: "XMP.272"

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: C-Terminus
- (D) OTHER INFORMATION: /label= Amidation
 /note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:112:

Lys Ser Lys Val Gly Trp Leu Ile Leu Leu Phe His Lys Lys Lys Ser
 1 5 10 15

Lys Val Gly Trp Leu Ile Leu Leu Phe His Lys Lys
 20 25

(2) INFORMATION FOR SEQ ID NO:113:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 28 amino acids
- (B) TYPE: amino acid
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: misc_feature
- (D) OTHER INFORMATION: "XMP.273"

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: C-Terminus
- (D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:113:

Lys Ser Lys Val Gly Trp Leu Ile Phe Leu Phe His Lys Lys Lys Ser
1 5 10 15

Lys Val Gly Trp Leu Ile Gln Leu Phe His Lys Lys
20 25

(2) INFORMATION FOR SEQ ID NO:114:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 28 amino acids
- (B) TYPE: amino acid
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: misc_feature
- (D) OTHER INFORMATION: "XMP.274"

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: C-Terminus
- (D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:114:

Lys Ser Lys Val Gly Trp Leu Ile Gln Leu Phe His Lys Lys Lys Ser
1 5 10 15

Lys Val Gly Trp Leu Ile Phe Leu Phe His Lys Lys
20 25

(2) INFORMATION FOR SEQ ID NO:115:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 28 amino acids
- (B) TYPE: amino acid
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: misc_feature
- (D) OTHER INFORMATION: "XMP.275"

(ix) FEATURE:

- (A) NAME/KEY: Modified-site

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 12 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (ix) FEATURE:
 - (A) NAME/KEY: misc_feature
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: C-Terminus
 - (D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"
- (D) OTHER INFORMATION: "XMP.285"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:118:

Ser	Lys	Val	Lys	Trp	Leu	Ile	Gln	Leu	Phe	His	Lys
1				5					10		

- (2) INFORMATION FOR SEQ ID NO:119:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 12 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (ix) FEATURE:
 - (A) NAME/KEY: misc_feature
 - (D) OTHER INFORMATION: "XMP.286"
 - (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: C-Terminus
 - (D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:119:

Lys	Val	Lys	Trp	Leu	Ile	Gln	Leu	Phe	His	Lys	Lys
1				5					10		

- (2) INFORMATION FOR SEQ ID NO:120:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 11 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (ix) FEATURE:
 - (A) NAME/KEY: misc_feature
 - (D) OTHER INFORMATION: "XMP.287"
 - (ix) FEATURE:
 - (A) NAME/KEY: Modified-site

- (B) LOCATION: C-Terminus
- (D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:120:

Ser Lys Val Lys Trp Leu Ile Gln Leu Phe His
1 5 10

(2) INFORMATION FOR SEQ ID NO:121:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 11 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (ix) FEATURE:
 - (A) NAME/KEY: misc_feature
 - (D) OTHER INFORMATION: "XMP.288"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: C-Terminus
 - (D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:121:

Lys Val Lys Trp Leu Ile Gln Leu Phe His Lys
1 5 10

(2) INFORMATION FOR SEQ ID NO:122:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 11 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (ix) FEATURE:
 - (A) NAME/KEY: misc_feature
 - (D) OTHER INFORMATION: "XMP.289"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: C-Terminus
 - (D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:122:

Val Lys Trp Leu Ile Gln Leu Phe His Lys Lys
1 5 10

(2) INFORMATION FOR SEQ ID NO:123:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 10 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: misc_feature
- (D) OTHER INFORMATION: "XMP.290"

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: C-Terminus
- (D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:123:

Ser	Lys	Val	Lys	Trp	Leu	Ile	Gln	Leu	Phe
1			5					10	

(2) INFORMATION FOR SEQ ID NO:124:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 10 amino acids
- (B) TYPE: amino acid
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: misc_feature
- (D) OTHER INFORMATION: "XMP.291"

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: C-Terminus
- (D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:124:

Lys	Val	Lys	Trp	Leu	Ile	Gln	Leu	Phe	His
1			5					10	

(2) INFORMATION FOR SEQ ID NO:125:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 10 amino acids
- (B) TYPE: amino acid
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: misc_feature
- (D) OTHER INFORMATION: "XMP.292"

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: C-Terminus
- (D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:125:

Val Lys Trp Leu Ile Gln Leu Phe His Lys

1

5

10

(2) INFORMATION FOR SEQ ID NO:126:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 10 amino acids
- (B) TYPE: amino acid
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: misc_feature
- (D) OTHER INFORMATION: "XMP.293"

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: C-Terminus
- (D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:126:

Lys Trp Leu Ile Gln Leu Phe His Lys Lys
1 5 10

(2) INFORMATION FOR SEQ ID NO:127:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 9 amino acids
- (B) TYPE: amino acid
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: misc_feature
- (D) OTHER INFORMATION: "XMP.294"

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: C-Terminus
- (D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:127:

Ser Lys Val Lys Trp Leu Ile Gln Leu
1 5

(2) INFORMATION FOR SEQ ID NO:128:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 9 amino acids
- (B) TYPE: amino acid
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: misc_feature
- (D) OTHER INFORMATION: "XMP.295"

(ix) FEATURE:
 (A) NAME/KEY: Modified-site
 (B) LOCATION: C-Terminus
 (D) OTHER INFORMATION: /label= Amidation
 /note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:129:

Lys Val Lys Trp Leu Ile Gln Leu Phe
 1 5

(2) INFORMATION FOR SEQ ID NO:129:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 9 amino acids
 (B) TYPE: amino acid
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:
 (A) NAME/KEY: misc_feature
 (D) OTHER INFORMATION: "XMP.296"

(ix) FEATURE:
 (A) NAME/KEY: Modified-site
 (B) LOCATION: C-Terminus
 (D) OTHER INFORMATION: /label= Amidation
 /note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:129:

Val Lys Trp Leu Ile Gln Leu Phe His
 1 5

(2) INFORMATION FOR SEQ ID NO:130:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 9 amino acids
 (B) TYPE: amino acid
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:
 (A) NAME/KEY: misc_feature
 (D) OTHER INFORMATION: "XMP.297"

(ix) FEATURE:
 (A) NAME/KEY: Modified-site
 (B) LOCATION: C-Terminus
 (D) OTHER INFORMATION: /label= Amidation
 /note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:130:

Lys Trp Leu Ile Gln Leu Phe His Lys
 1 5

(2) INFORMATION FOR SEQ ID NO:131:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 9 amino acids

(B) TYPE: amino acid
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

(A) NAME/KEY: misc_feature
(D) OTHER INFORMATION: "XMP.298"

(ix) FEATURE:

(A) NAME/KEY: Modified-site
(B) LOCATION: C-Terminus
(D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:131:

Trp Leu Ile Gln Leu Phe His Lys Lys
1 5

(2) INFORMATION FOR SEQ ID NO:132:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 8 amino acids
(B) TYPE: amino acid
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

(A) NAME/KEY: misc_feature
(D) OTHER INFORMATION: "XMP.299"

(ix) FEATURE:

(A) NAME/KEY: Modified-site
(B) LOCATION: C-Terminus
(D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:132:

Ser Lys Val Lys Trp Leu Ile Gln
1 5

(2) INFORMATION FOR SEQ ID NO:133:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 8 amino acids
(B) TYPE: amino acid
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

(A) NAME/KEY: misc_feature
(D) OTHER INFORMATION: "XMP.300"

(ix) FEATURE:

(A) NAME/KEY: Modified-site
(B) LOCATION: C-Terminus
(D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:133:

Lys Val Lys Trp Leu Ile Gln Leu
1 5

(2) INFORMATION FOR SEQ ID NO:134:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 8 amino acids
(B) TYPE: amino acid
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:
(A) NAME/KEY: misc_feature
(D) OTHER INFORMATION: "XMP.301"

(ix) FEATURE:
(A) NAME/KEY: Modified-site
(B) LOCATION: C-Terminus
(D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:134:

Val Lys Trp Leu Ile Gln Leu Phe
1 5

(2) INFORMATION FOR SEQ ID NO:135:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 8 amino acids
(B) TYPE: amino acid
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:
(A) NAME/KEY: misc_feature
(D) OTHER INFORMATION: "XMP.302"

(ix) FEATURE:
(A) NAME/KEY: Modified-site
(B) LOCATION: C-Terminus
(D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:135:

Lys Trp Leu Ile Gln Leu Phe His
1 5

(2) INFORMATION FOR SEQ ID NO:136:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 8 amino acids
(B) TYPE: amino acid
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: misc feature
- (D) OTHER INFORMATION: "XMP.303"

- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: C-Terminus
 - (D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:136:

Trp Leu Ile Gln Leu Phe His Lys
1 5

- (2) INFORMATION FOR SEQ ID NO:137:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 8 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (ix) FEATURE:
 - (A) NAME/KEY: misc feature
 - (D) OTHER INFORMATION: "XMP.304"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: C-Terminus
 - (D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:137:

Leu Ile Gln Leu Phe His Lys Lys
1 5

- (2) INFORMATION FOR SEQ ID NO:138:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 7 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (ix) FEATURE:
 - (A) NAME/KEY: misc feature
 - (D) OTHER INFORMATION: "XMP.305"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: C-Terminus
 - (D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:138:

Ser Lys Val Lys Trp Leu Ile
1 5

- (2) INFORMATION FOR SEQ ID NO:139:

(ii) MOLECULE TYPE: peptide

[illegible]

Lys Val Lys Trp Leu Ile Gln
1 5

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 7 amino acids
(B) TYPE: amino acid
(D) TOPOLOGY: linear

```
(ix) FEATURE:
      (A) NAME/KEY: misc_feature
      (D) OTHER INFORMATION: "XMP.307"
```

[illegible]

Val Lys Trp Leu Ile Gln Leu
1 5

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 7 amino acids
(B) TYPE: amino acid
(D) TOPOLOGY: linear

```
(ix) FEATURE:
      (A) NAME/KEY: misc_feature
      (D) OTHER INFORMATION: "XMP.308"
```

```
(ix) FEATURE:
      (A) NAME/KEY: Modified-site
      (B) LOCATION: C-Terminus
      (D) OTHER INFORMATION: /label= Amidation
```

/note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:141:

Lys Trp Leu Ile Gln Leu Phe
1 5

(2) INFORMATION FOR SEQ ID NO:142:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 7 amino acids
(B) TYPE: amino acid
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:
(A) NAME/KEY: misc_feature
(D) OTHER INFORMATION: "XMP.309"

(ix) FEATURE:
(A) NAME/KEY: Modified-site
(B) LOCATION: C-Terminus
(D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:142:

Trp Leu Ile Gln Leu Phe His
1 5

(2) INFORMATION FOR SEQ ID NO:143:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 7 amino acids
(B) TYPE: amino acid
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:
(A) NAME/KEY: misc_feature
(D) OTHER INFORMATION: "XMP.310"

(ix) FEATURE:
(A) NAME/KEY: Modified-site
(B) LOCATION: C-Terminus
(D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:143:

Leu Ile Gln Leu Phe His Lys
1 5

(2) INFORMATION FOR SEQ ID NO:144:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 7 amino acids
(B) TYPE: amino acid
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:
 (A) NAME/KEY: misc_feature
 (D) OTHER INFORMATION: "XMP.311"

(ix) FEATURE:
 (A) NAME/KEY: Modified-site
 (B) LOCATION: C-Terminus
 (D) OTHER INFORMATION: /label= Amidation
 /note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:144:

Ile Gln Leu Phe His Lys Lys
 1 5

(2) INFORMATION FOR SEQ ID NO:145:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 6 amino acids
 (B) TYPE: amino acid
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:
 (A) NAME/KEY: misc_feature
 (D) OTHER INFORMATION: "XMP.312"

(ix) FEATURE:
 (A) NAME/KEY: Modified-site
 (B) LOCATION: C-Terminus
 (D) OTHER INFORMATION: /label= Amidation
 /note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:145:

Ser Lys Val Lys Trp Leu
 1 5

(2) INFORMATION FOR SEQ ID NO:146:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 6 amino acids
 (B) TYPE: amino acid
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:
 (A) NAME/KEY: misc_feature
 (D) OTHER INFORMATION: "XMP.313"

(ix) FEATURE:
 (A) NAME/KEY: Modified-site
 (B) LOCATION: C-Terminus
 (D) OTHER INFORMATION: /label= Amidation
 /note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:146:

Lys Val Lys Trp Leu Ile
 1 5

(2) INFORMATION FOR SEQ ID NO:147:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 6 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (ix) FEATURE:
 - (A) NAME/KEY: misc_feature
 - (D) OTHER INFORMATION: "XMP.314"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: C-Terminus
 - (D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:147:

Val Lys Trp Leu Ile Gln
1 5

(2) INFORMATION FOR SEQ ID NO:148:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 6 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (ix) FEATURE:
 - (A) NAME/KEY: misc_feature
 - (D) OTHER INFORMATION: "XMP.315"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: C-Terminus
 - (D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:148:

Lys Trp Leu Ile Gln Leu
1 5

(2) INFORMATION FOR SEQ ID NO:149:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 6 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (ix) FEATURE:
 - (A) NAME/KEY: misc_feature
 - (D) OTHER INFORMATION: "XMP.316"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site

- (B) LOCATION: C-Terminus
- (D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:149:

Trp Leu Ile Gln Leu Phe
1 5

(2) INFORMATION FOR SEQ ID NO:150:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 6 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (ix) FEATURE:
 - (A) NAME/KEY: misc_feature
 - (D) OTHER INFORMATION: "XMP.317"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: C-Terminus
 - (D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:150:

Leu Ile Gln Leu Phe His
1 5

(2) INFORMATION FOR SEQ ID NO:151:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 6 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (ix) FEATURE:
 - (A) NAME/KEY: misc_feature
 - (D) OTHER INFORMATION: "XMP.318"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: C-Terminus
 - (D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:151:

Ile Gln Leu Phe His Lys
1 5

(2) INFORMATION FOR SEQ ID NO:152:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 6 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: misc_feature
- (D) OTHER INFORMATION: "XMP.319"

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: C-Terminus
- (D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:152:

Gln Leu Phe His Lys Lys
1 5

(2) INFORMATION FOR SEQ ID NO:153:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 5 amino acids
- (B) TYPE: amino acid
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: misc_feature
- (D) OTHER INFORMATION: "XMP.320"

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: C-Terminus
- (D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:153:

Trp Leu Ile Gln Leu
1 5

(2) INFORMATION FOR SEQ ID NO:154:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 6 amino acids
- (B) TYPE: amino acid
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: misc_feature
- (D) OTHER INFORMATION: "XMP.321"

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: C-Terminus
- (D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:154:

Trp Leu Ile Gln Leu Lys

1

5

(2) INFORMATION FOR SEQ ID NO:155:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 7 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (ix) FEATURE:
 - (A) NAME/KEY: misc_feature
 - (D) OTHER INFORMATION: "XMP.322"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: C-Terminus
 - (D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:155:

Trp	Leu	Ile	Gln	Leu	Lys	Lys
1				5		

(2) INFORMATION FOR SEQ ID NO:156:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 7 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (ix) FEATURE:
 - (A) NAME/KEY: misc_feature
 - (D) OTHER INFORMATION: "XMP.323"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: C-Terminus
 - (D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:156:

Lys	Trp	Leu	Ile	Gln	Leu	Lys
1				5		

(2) INFORMATION FOR SEQ ID NO:157:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 8 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (ix) FEATURE:
 - (A) NAME/KEY: misc_feature
 - (D) OTHER INFORMATION: "XMP.324"

(ix) FEATURE:
 (A) NAME/KEY: Modified-site
 (B) LOCATION: C-Terminus
 (D) OTHER INFORMATION: /label= Amidation
 /note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:157:

Lys Trp Leu Ile Gln Leu Lys Lys
 1 5

(2) INFORMATION FOR SEQ ID NO:158:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 7 amino acids
 (B) TYPE: amino acid
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:
 (A) NAME/KEY: misc_feature
 (D) OTHER INFORMATION: "XMP.325"

(ix) FEATURE:
 (A) NAME/KEY: Modified-site
 (B) LOCATION: C-Terminus
 (D) OTHER INFORMATION: /label= Amidation
 /note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:158:

Lys Lys Trp Leu Ile Gln Leu
 1 5

(2) INFORMATION FOR SEQ ID NO:159:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 8 amino acids
 (B) TYPE: amino acid
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:
 (A) NAME/KEY: misc_feature
 (D) OTHER INFORMATION: "XMP.326"

(ix) FEATURE:
 (A) NAME/KEY: Modified-site
 (B) LOCATION: C-Terminus
 (D) OTHER INFORMATION: /label= Amidation
 /note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:159:

Lys Lys Trp Leu Ile Gln Leu Lys
 1 5

(2) INFORMATION FOR SEQ ID NO:160:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 9 amino acids

(B) TYPE: amino acid
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

(A) NAME/KEY: misc_feature
(D) OTHER INFORMATION: "XMP.327"

(ix) FEATURE:

(A) NAME/KEY: Modified-site
(B) LOCATION: C-Terminus
(D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:160:

Lys Lys Trp Leu Ile Gln Leu Lys Lys
1 5

(2) INFORMATION FOR SEQ ID NO:161:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 4 amino acids
(B) TYPE: amino acid
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

(A) NAME/KEY: misc_feature
(D) OTHER INFORMATION: "XMP.330"

(ix) FEATURE:

(A) NAME/KEY: Modified-site
(B) LOCATION: C-Terminus
(D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:161:

Trp Leu Ile Gln
1

(2) INFORMATION FOR SEQ ID NO:162:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 9 amino acids
(B) TYPE: amino acid
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

(A) NAME/KEY: misc_feature
(D) OTHER INFORMATION: "XMP.331"

(ix) FEATURE:

(A) NAME/KEY: Modified-site
(B) LOCATION: 1
(D) OTHER INFORMATION: /label= Acetylated
/note= "Position 1 is acetylated"

- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: C-Terminus
 - (D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:162:

Lys Lys Trp Leu Ile Gln Leu Lys Lys
1 5

(2) INFORMATION FOR SEQ ID NO:163:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 9 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

- (ix) FEATURE:
 - (A) NAME/KEY: misc_feature
 - (D) OTHER INFORMATION: "XMP.332"

- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 1-9
 - (D) OTHER INFORMATION: /label= D-Amino Acids
/note= "Positions 1-9 are D-amino acids"

- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: C-Terminus
 - (D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:163:

Lys Lys Leu Gln Ile Leu Trp Lys Lys
1 5

(2) INFORMATION FOR SEQ ID NO:164:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 9 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

- (ix) FEATURE:
 - (A) NAME/KEY: misc_feature
 - (D) OTHER INFORMATION: "XMP.333"

- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 1
 - (D) OTHER INFORMATION: /label= D-Lys
/note= "Position 1 is D-lysine"

- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: C-Terminus

(D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:164:

Lys Lys Trp Leu Ile Gln Leu Lys Lys
1 5

(2) INFORMATION FOR SEQ ID NO:165:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 9 amino acids
(B) TYPE: amino acid
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:
(A) NAME/KEY: misc_feature
(D) OTHER INFORMATION: "XMP.334"

(ix) FEATURE:
(A) NAME/KEY: Modified-site
(B) LOCATION: 1
(D) OTHER INFORMATION: /label= D-Pro
/note= "Position 1 is D-proline"

(ix) FEATURE:
(A) NAME/KEY: Modified-site
(B) LOCATION: C-Terminus
(D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:165:

Pro Lys Trp Leu Ile Gln Leu Lys Lys
1 5

(2) INFORMATION FOR SEQ ID NO:166:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 9 amino acids
(B) TYPE: amino acid
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:
(A) NAME/KEY: misc_feature
(D) OTHER INFORMATION: "XMP.335"

(ix) FEATURE:
(A) NAME/KEY: Modified-site
(B) LOCATION: C-Terminus
(D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:166:

Pro Lys Trp Leu Ile Gln Leu Lys Lys
1 5

(2) INFORMATION FOR SEQ ID NO:167:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 9 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

- (ix) FEATURE:
 - (A) NAME/KEY: misc_feature
 - (D) OTHER INFORMATION: "XMP.336"

- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: C-Terminus
 - (D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:167:

Arg Arg Trp Leu Ile Gln Leu Arg Arg
1 5

(2) INFORMATION FOR SEQ ID NO:168:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 9 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

- (ix) FEATURE:
 - (A) NAME/KEY: misc_feature
 - (D) OTHER INFORMATION: "XMP.337"

- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: C-Terminus
 - (D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:168:

His His Trp Leu Ile Gln Leu His His
1 5

(2) INFORMATION FOR SEQ ID NO:169:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 9 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

- (ix) FEATURE:
 - (A) NAME/KEY: misc_feature
 - (D) OTHER INFORMATION: "XMP.338"

- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 1, 2, 8 & 9
 - (D) OTHER INFORMATION: /label= Orn

/note= "Positions 1, 2, 8 & 9 are Ornithine"

- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: C-Terminus
 - (D) OTHER INFORMATION: /label= Amidation
 - /note= "The C-Terminus is Amidated"

- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:169:

Xaa Xaa Trp Leu Ile Gln Leu Xaa Xaa
1 5

- (2) INFORMATION FOR SEQ ID NO:170:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 9 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: peptide

- (ix) FEATURE:
 - (A) NAME/KEY: misc feature
 - (D) OTHER INFORMATION: "XMP.339"

- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 1, 2, 8 & 9
 - (D) OTHER INFORMATION: /label= Dbu
 - /note= "Positions 1, 2, 8 & 9 are Diaminobutyric acid"

- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: C-Terminus
 - (D) OTHER INFORMATION: /label= Amidation
 - /note= "The C-Terminus is Amidated"

- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:170:

Xaa Xaa Trp Leu Ile Gln Leu Xaa Xaa
1 5

- (2) INFORMATION FOR SEQ ID NO:171:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 9 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: peptide

- (ix) FEATURE:
 - (A) NAME/KEY: misc feature
 - (D) OTHER INFORMATION: "XMP.340"

- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 1, 2, 8 & 9
 - (C) OTHER INFORMATION: /label= Substituted-Phe
 - /note= "Positions 1, 2, 8 & 9 are para-amino-substituted."

- (ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: C-Terminus
- (D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:171:

Phe Phe Trp Leu Ile Gln Leu Phe Phe
1 5

(2) INFORMATION FOR SEQ ID NO:172:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 9 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (ix) FEATURE:
 - (A) NAME/KEY: misc_feature
 - (D) OTHER INFORMATION: "XMP.341"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 1, 2, 8 & 9
 - (C) OTHER INFORMATION: /label= Substituted-Ala
/note= "The alanine at positions 1, 2, 8 & 9 is
pyridyl-substituted."
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: C-Terminus
 - (D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:172:

Ala Ala Trp Leu Ile Gln Leu Ala Ala
1 5

(2) INFORMATION FOR SEQ ID NO:173:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 9 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (ix) FEATURE:
 - (A) NAME/KEY: misc_feature
 - (D) OTHER INFORMATION: "XMP.342"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 1, 2, 8 & 9
 - (D) OTHER INFORMATION: /label= D-Lys
/note= "Positions 1, 2, 8 & 9 are D-lysine"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: C-Terminus

(D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:173:

Lys Lys Trp Leu Ile Gln Leu Lys Lys
1 5

(2) INFORMATION FOR SEQ ID NO:174:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 9 amino acids
(B) TYPE: amino acid
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:
(A) NAME/KEY: misc feature
(D) OTHER INFORMATION: "XMP.343"

(ix) FEATURE:
(A) NAME/KEY: Modified-site
(B) LOCATION: C-Terminus
(D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:174:

Lys Lys Val Leu Ile Gln Leu Lys Lys
1 5

(2) INFORMATION FOR SEQ ID NO:175:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 9 amino acids
(B) TYPE: amino acid
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:
(A) NAME/KEY: misc feature
(D) OTHER INFORMATION: "XMP.344"

(ix) FEATURE:
(A) NAME/KEY: Modified-site
(B) LOCATION: C-Terminus
(D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:175:

Lys Lys Trp Ala Ile Gln Leu Lys Lys
1 5

(2) INFORMATION FOR SEQ ID NO:176:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 9 amino acids
(B) TYPE: amino acid
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: misc_feature
- (D) OTHER INFORMATION: "XMP.345"

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: C-Terminus
- (D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:176:

Lys Lys Trp Leu Ile Gln Ala Lys Lys
1 5

(2) INFORMATION FOR SEQ ID NO:177:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 9 amino acids
- (B) TYPE: amino acid
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: misc_feature
- (D) OTHER INFORMATION: "XMP.346"

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 3
- (C) OTHER INFORMATION: /label= Substituted-Phe
/note= "The phenylalanine at position 3 is
p-amino-substituted."

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: C-Terminus
- (D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:177:

Lys Lys Phe Leu Ile Gln Leu Lys Lys
1 5

(2) INFORMATION FOR SEQ ID NO:178:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 9 amino acids
- (B) TYPE: amino acid
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: misc_feature
- (D) OTHER INFORMATION: "XMP.347"

(ix) FEATURE:

- (A) NAME/KEY: Modified-site

- (B) LOCATION: 3
- (C) OTHER INFORMATION: /label= Substituted-Ala
/note= "Position 3 is D-beta-2-naphthyl-substituted."

- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: C-Terminus
 - (D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:178:

Lys Lys Ala Leu Ile Leu Leu Lys Lys
1 5

- (2) INFORMATION FOR SEQ ID NO:179:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 10 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: peptide

- (ix) FEATURE:
 - (A) NAME/KEY: misc_feature
 - (D) OTHER INFORMATION: "KMP.348"

- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: C-Terminus
 - (D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:179:

Lys Lys Lys Trp Leu Ile Gln Leu Lys Lys
1 5 10

- (2) INFORMATION FOR SEQ ID NO:180:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 10 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: peptide

- (ix) FEATURE:
 - (A) NAME/KEY: misc_feature
 - (D) OTHER INFORMATION: "XMP.349"

- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: C-Terminus
 - (D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:180:

Lys Lys Trp Leu Ile Gln Leu Lys Lys Lys
1 5 10

(2) INFORMATION FOR SEQ ID NO:181:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 11 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (ix) FEATURE:
 - (A) NAME/KEY: misc_feature
 - (D) OTHER INFORMATION: "XMP.350"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: C-Terminus
 - (D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:181:

Lys Lys Lys Trp Leu Ile Gln Leu Lys Lys Lys
 1 5 10

(2) INFORMATION FOR SEQ ID NO:182:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 10 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (ix) FEATURE:
 - (A) NAME/KEY: misc_feature
 - (D) OTHER INFORMATION: "XMP.351"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: C-Terminus
 - (D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:182:

Lys Lys Trp Leu Ile Gln Leu Phe Lys Lys
 1 5 10

(2) INFORMATION FOR SEQ ID NO:183:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 11 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (ix) FEATURE:
 - (A) NAME/KEY: misc_feature
 - (D) OTHER INFORMATION: "XMP.352"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site

(B) LOCATION: C-Terminus
 (D) OTHER INFORMATION: /label= Amidation
 /note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:183:

Lys Lys Trp Leu Ile Gln Leu Phe His Lys Lys
 1 5 10

(2) INFORMATION FOR SEQ ID NO:184:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 10 amino acids
 (B) TYPE: amino acid
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:
 (A) NAME/KEY: misc_feature
 (D) OTHER INFORMATION: "XMP.353"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:184:

Pro Trp Leu Ile Gln Leu Phe His Lys Lys
 1 5 10

(2) INFORMATION FOR SEQ ID NO:185:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 10 amino acids
 (B) TYPE: amino acid
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:
 (A) NAME/KEY: misc_feature
 (D) OTHER INFORMATION: "XMP.354"

(ix) FEATURE:
 (A) NAME/KEY: Modified-site
 (B) LOCATION: 1
 (D) OTHER INFORMATION: /label= Acetylated
 /note= "Position 1 is acetylated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:185:

Pro Trp Leu Ile Gln Leu Phe His Lys Lys
 1 5 10

(2) INFORMATION FOR SEQ ID NO:186:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 10 amino acids
 (B) TYPE: amino acid
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:
 (A) NAME/KEY: misc_feature
 (D) OTHER INFORMATION: "XMP.355"

(ix) FEATURE:
 (A) NAME/KEY: Modified-site
 (B) LOCATION: C-Terminus
 (D) OTHER INFORMATION: /label= Amidation
 /note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:186:

Pro Trp Leu Ile Gln Leu Phe His Lys Lys
 1 5 10

(2) INFORMATION FOR SEQ ID NO:187:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 10 amino acids
 (B) TYPE: amino acid
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:
 (A) NAME/KEY: misc_feature
 (D) OTHER INFORMATION: "XMP.356"

(ix) FEATURE:
 (A) NAME/KEY: Modified-site
 (B) LOCATION: 1
 (D) OTHER INFORMATION: /label= Acetylated
 /note= "Position 1 is acetylated"

(ix) FEATURE:
 (A) NAME/KEY: Modified-site
 (B) LOCATION: C-Terminus
 (D) OTHER INFORMATION: /label= Amidation
 /note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:187:

Pro Trp Leu Ile Gln Leu Phe His Lys Lys
 1 5 10

(2) INFORMATION FOR SEQ ID NO:188:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 10 amino acids
 (B) TYPE: amino acid
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:
 (A) NAME/KEY: misc_feature
 (D) OTHER INFORMATION: "XMP.357"

(ix) FEATURE:
 (A) NAME/KEY: Modified-site
 (B) LOCATION: C-Terminus
 (D) OTHER INFORMATION: /label= Amidation
 /note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:188:

Lys Trp Leu Ile Gln Leu Phe His Lys Pro

1

5

10

(2) INFORMATION FOR SEQ ID NO:189:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 11 amino acids
- (B) TYPE: amino acid
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: misc_feature
- (D) OTHER INFORMATION: "XMP.358"

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: C-Terminus
- (D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:189:

Lys Lys Trp Leu Ile Gln Leu Phe His Lys Pro
1 5 10

(2) INFORMATION FOR SEQ ID NO:190:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 10 amino acids
- (B) TYPE: amino acid
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: misc_feature
- (D) OTHER INFORMATION: "XMP.359"

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 1
- (C) OTHER INFORMATION: /label= D-Cys
/note= "Position 1 is D-cysteine."

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: C-Terminus
- (D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:190:

Cys Trp Leu Ile Gln Leu Phe His Lys Lys
1 5 10

(2) INFORMATION FOR SEQ ID NO:191:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 9 amino acids
- (B) TYPE: amino acid
- (D) TOPOLOGY: circular

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: misc_feature
- (D) OTHER INFORMATION: "XMP.360"

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 1 & 9
- (C) OTHER INFORMATION: /label= D-Lys
/note= "Positions 1 & 9 are D-lysine."

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 2
- (C) OTHER INFORMATION: /label= D-Cys
/note= "Position 2 is D-cysteine."

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: C-Terminus
- (D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:191:

Lys Cys Leu Ile Gln Leu Phe Cys Lys
1 5

(2) INFORMATION FOR SEQ ID NO:192:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 9 amino acids
- (B) TYPE: amino acid
- (D) TOPOLOGY: circular

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: misc_feature
- (D) OTHER INFORMATION: "XMP.361"

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 1 & 9
- (C) OTHER INFORMATION: /label= D-Lys
/note= "Positions 1 & 9 are D-lysine."

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: C-Terminus
- (D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:192:

Lys Cys Leu Ile Gln Leu Phe Cys Lys
1 5

(2) INFORMATION FOR SEQ ID NO:193:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 11 amino acids

(B) TYPE: amino acid
(D) TOPOLOGY: circular

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

(A) NAME/KEY: misc_feature
(D) OTHER INFORMATION: "XMP.362"

(ix) FEATURE:

(A) NAME/KEY: Modified-site
(B) LOCATION: 1 & 11
(C) OTHER INFORMATION: /label= D-Lys
/note= "Positions 1 & 11 are D-lysine."

(ix) FEATURE:

(A) NAME/KEY: Modified-site
(B) LOCATION: C-Terminus
(D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:193:

Lys Lys Cys Leu Ile Gln Leu Phe Cys Lys Lys
1 5 10

(2) INFORMATION FOR SEQ ID NO:194:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 10 amino acids
(B) TYPE: amino acid
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

(A) NAME/KEY: misc_feature
(D) OTHER INFORMATION: "XMP.363"

(ix) FEATURE:

(A) NAME/KEY: Modified-site
(B) LOCATION: 1, 9 & 10
(C) OTHER INFORMATION: /label= D-Lys
/note= "Positions 1, 9 & 10 are D-lysine."

(ix) FEATURE:

(A) NAME/KEY: Modified-site
(B) LOCATION: 2
(C) OTHER INFORMATION: /label= D-Trp
/note= "Position 2 is D-tryptophan."

(ix) FEATURE:

(A) NAME/KEY: Modified-site
(B) LOCATION: C-Terminus
(D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:194:

Lys Trp Leu Ile Gln Leu Phe His Lys Lys
1 5 10

(2) INFORMATION FOR SEQ ID NO:195:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 10 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (ix) FEATURE:
 - (A) NAME/KEY: misc_feature
 - (D) OTHER INFORMATION: "XMP.364"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 1
 - (D) OTHER INFORMATION: /label= Acetylated
/note= "Position 1 is acetylated"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 1, 9 & 10
 - (C) OTHER INFORMATION: /label= D-Lys
/note= "Positions 1, 9 & 10 are D-lysine."
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 2
 - (C) OTHER INFORMATION: /label= D-Trp
/note= "Position 2 is D-tryptophan."
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: C-Terminus
 - (D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:195:

Lys	Trp	Leu	Ile	Gln	Leu	Phe	His	Lys	Lys
1				5					10

(2) INFORMATION FOR SEQ ID NO:196:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 10 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (ix) FEATURE:
 - (A) NAME/KEY: misc_feature
 - (D) OTHER INFORMATION: "XMP.365"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 1-10
 - (D) OTHER INFORMATION: /label= D-Amino Acids
/note= "Positions 1-10 are D-amino acids"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: C-Terminus
 - (D) OTHER INFORMATION: /label= Amidation

/note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:196:

Lys Trp Leu Ile Gln Leu Phe His Lys Lys
1 5 10

(2) INFORMATION FOR SEQ ID NO:197:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 10 amino acids
- (B) TYPE: amino acid
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: misc_feature
- (D) OTHER INFORMATION: "XMP.366"

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 1
- (D) OTHER INFORMATION: /label= Acetylated
/note= "Position 1 is acetylated"

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 1-10
- (D) OTHER INFORMATION: /label= D-Amino Acids
/note= "Positions 1-10 are D-amino acids"

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: C-Terminus
- (D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:197:

Lys Trp Leu Ile Gln Leu Phe His Lys Lys
1 5 10

(2) INFORMATION FOR SEQ ID NO:198:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 10 amino acids
- (B) TYPE: amino acid
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: misc_feature
- (D) OTHER INFORMATION: "XMP.367"

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 1-10
- (D) OTHER INFORMATION: /label= D-Amino Acids
/note= "Positions 1-10 are D-amino acids"

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: C-Terminus
- (D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:198:

Lys Lys His Phe Leu Gln Ile Leu Trp Lys
1 5 10

(2) INFORMATION FOR SEQ ID NO:199:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 10 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (ix) FEATURE:
 - (A) NAME/KEY: misc feature
 - (D) OTHER INFORMATION: "XMP.368"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 1
 - (D) OTHER INFORMATION: /label= Acetylated
/note= "Position 1 is acetylated"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 1-10
 - (D) OTHER INFORMATION: /label= D-Amino Acids
/note= "Positions 1-10 are D-amino acids"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: C-Terminus
 - (D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:199:

Lys Lys His Phe Leu Gln Ile Leu Trp Lys
1 5 10

(2) INFORMATION FOR SEQ ID NO:200:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 10 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (ix) FEATURE:
 - (A) NAME/KEY: misc feature
 - (D) OTHER INFORMATION: "XMP.369"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 5
 - (D) OTHER INFORMATION: /label= Orn

/note= "Position 5 is Ornithine"

- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: C-Terminus
 - (D) OTHER INFORMATION: /label= Amidation
 - /note= "The C-Terminus is Amidated"

- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:200:

Lys Trp Leu Ile Xaa Leu Phe His Lys Lys
 1 5 10

- (2) INFORMATION FOR SEQ ID NO:201:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 10 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (ix) FEATURE:
 - (A) NAME/KEY: misc_feature
 - (D) OTHER INFORMATION: "XMP.370"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 5
 - (D) OTHER INFORMATION: /label= Orn
 - /note= "Position 5 is Ornithine"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 1
 - (D) OTHER INFORMATION: /label= Acetylated
 - /note= "Position 1 is acetylated"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: C-Terminus
 - (D) OTHER INFORMATION: /label= Amidation
 - /note= "The C-Terminus is Amidated"

- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:201:

Lys Trp Leu Ile Xaa Leu Phe His Lys Lys
 1 5 10

- (2) INFORMATION FOR SEQ ID NO:202:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 10 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (ix) FEATURE:
 - (A) NAME/KEY: misc_feature
 - (D) OTHER INFORMATION: "XMP.371"
- (ix) FEATURE:

[illegible]

Lys Trp Leu Ile Xaa Leu Phe His Lys Lys
1 5 10

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 10 amino acids
(B) TYPE: amino acid
(D) TOPOLOGY: linear

```
(ix) FEATURE:
      (A) NAME/KEY: misc_feature
      (D) OTHER INFORMATION: "XMP.372"
```

[illegible]

```
(ix) FEATURE:
      (A) NAME/KEY: Modified-site
      (B) LOCATION: 1
      (D) OTHER INFORMATION: /label= Acetylated
                           /note= "Position 1 is acetylated"
```

[illegible]

Lys Trp Leu Ile Xaa Leu Phe His Lys Lys
1 5 10

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 10 amino acids
(B) TYPE: amino acid
(D) TOPOLOGY: linear

```
(ix) FEATURE:
      (A) NAME/KEY: misc_feature
```


(D) OTHER INFORMATION: "KMP.373"

(ix) FEATURE:

(A) NAME/KEY: Modified-site
(B) LOCATION: 1
(D) OTHER INFORMATION: /label= Acetylated
/note= "Position 1 is acetylated"

(ix) FEATURE:

(A) NAME/KEY: Modified-site
(B) LOCATION: C-Terminus
(D) OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:204:

Lys Trp Leu Ile Gln Leu Phe His Lys Lys
1 5 10

(2) INFORMATION FOR SEQ ID NO:205:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 1813 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(ix) FEATURE:

(A) NAME/KEY: CDS
(B) LOCATION: 31..1491

(ix) FEATURE:

(A) NAME/KEY: mat_peptide
(B) LOCATION: 124..1491

(ix) FEATURE:

(A) NAME/KEY: misc_feature
(D) OTHER INFORMATION: "rBPI"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:205:

CAGGCCTTGA GGTTTTGGCA GCTCTGGAGG ATG AGA GAG AAC ATG GCC AGG GGC	54
Met Arg Glu Asn Met Ala Arg Gly	
-31 -30 -25	
CCT TGC AAC GCG CCG AGA TGG GTG TCC CTG ATG GTG CTC GTC GCC ATA	102
Pro Cys Asn Ala Pro Arg Trp Val Ser Leu Met Val Leu Val Ala Ile	
-20 -15 -10	
GGC ACC GCC GTG ACA GCG GCC GTC AAC CCT GGC GTC GTG GTC AGG ATC	150
Gly Thr Ala Val Thr Ala Ala Val Asn Pro Gly Val Val Val Arg Ile	
-5 1 5	
TCC CAG AAG GGC CTG GAC TAC GCC AGC CAG CAG GGG ACG GCC GCT CTG	198
Ser Gln Lys Gly Leu Asp Tyr Ala Ser Gln Gln Gly Thr Ala Ala Leu	
10 15 20 25	
CAG AAG GAG CTG AAG AGG ATC AAG ATT CCT GAC TAC TCA GAC AGC TTT	246
Gln Lys Glu Leu Lys Arg Ile Lys Ile Pro Asp Tyr Ser Asp Ser Phe	
30 35 40	

AAG ATC AAG CAT CTT GGG AAG GGG CAT TAT AGC TTC TAC AGC ATG GAC	294
Lys Ile Lys His Leu Gly Lys Gly His Tyr Ser Phe Tyr Ser Met Asp	
45 50 55	
ATC CGT GAA TTC CAG CTT CCC AGT TCC CAG ATA AGC ATG GTG CCC AAT	342
Ile Arg Glu Phe Gln Leu Pro Ser Ser Gln Ile Ser Met Val Pro Asn	
60 65 70	
GTG GGC CTT AAG TTC TCC ATC AGC AAC GCC AAT ATC AAG ATC AGC GGG	390
Val Gly Leu Lys Phe Ser Ile Ser Asn Ala Asn Ile Lys Ile Ser Gly	
75 80 85	
AAA TGG AAG GCA CAA AAG AGA TTC TTA AAA ATG AGC GGC AAT TTT GAC	438
Lys Trp Lys Ala Gln Lys Arg Phe Leu Lys Met Ser Gly Asn Phe Asp	
90 95 100 105	
CTG AGC ATA GAA GGC ATG TCC ATT TCG GCT GAT CTG AAG CTG GGC AGT	486
Leu Ser Ile Glu Gly Met Ser Ile Ser Ala Asp Leu Lys Leu Gly Ser	
110 115 120	
AAC CCC ACG TCA GGC AAG CCC ACC ATC ACC TGC TCC AGC TGC AGC AGC	534
Asn Pro Thr Ser Gly Lys Pro Thr Ile Thr Cys Ser Ser Cys Ser Ser	
125 130 135	
CAC ATC AAC AGT GTC CAC GTG CAC ATC TCA AAG AGC AAA GTC GGG TGG	582
His Ile Asn Ser Val His Val His Ile Ser Lys Ser Lys Val Gly Trp	
140 145 150	
CTG ATC CAA CTC TTC CAC AAA AAA ATT GAG TCT GCG CTT CGA AAC AAG	630
Leu Ile Gln Leu Phe His Lys Lys Ile Glu Ser Ala Leu Arg Asn Lys	
155 160 165	
ATG AAC AGC CAG GTC TGC GAG AAA GTG ACC AAT TCT GTA TCC TCC AAG	678
Met Asn Ser Gln Val Cys Glu Lys Val Thr Asn Ser Val Ser Ser Lys	
170 175 180 185	
CTG CAA CCT TAT TTC CAG ACT CTG CCA GTA ATG ACC AAA ATA GAT TCT	726
Leu Gln Pro Tyr Phe Gln Thr Leu Pro Val Met Thr Lys Ile Asp Ser	
190 195 200	
GTG GCT GGA ATC AAC TAT GGT CTG GTG GCA CCT CCA GCA ACC ACG GCT	774
Val Ala Gly Ile Asn Tyr Gly Leu Val Ala Pro Pro Ala Thr Thr Ala	
205 210 215	
GAG ACC CTG GAT GTA CAG ATG AAG GGG GAG TTT TAC AGT GAG AAC CAC	822
Glu Thr Leu Asp Val Gln Met Lys Gly Glu Phe Tyr Ser Glu Asn His	
220 225 230	
CAC AAT CCA CCT CCC TTT GCT CCA CCA GTG ATG GAG TTT CCC GCT GCC	870
His Asn Pro Pro Pro Phe Ala Pro Pro Val Met Glu Phe Pro Ala Ala	
235 240 245	
CAT GAC CGC ATG GTA TAC CTG GGC CTC TCA GAC TAC TTC TTC AAC ACA	918
His Asp Arg Met Val Tyr Leu Gly Leu Ser Asp Tyr Phe Phe Asn Thr	
250 255 260 265	
GCC GGG CTT GTA TAC CAA GAG GCT GGG GTC TTG AAG ATG ACC CTT AGA	966
Ala Gly Leu Val Tyr Gln Glu Ala Gly Val Leu Lys Met Thr Leu Arg	
270 275 280	
GAT GAC ATG ATT CCA AAG GAG TCC AAA TTT CGA CTG ACA ACC AAG TTC	1014
Asp Asp Met Ile Pro Lys Glu Ser Lys Phe Arg Leu Thr Thr Lys Phe	
285 290 295	

```

TTT GGA ACC TTC CTA CCT GAG GTG GCC AAG AAG TTT CCC AAC ATG AAG 1062
Phe Gly Thr Phe Leu Pro Glu Val Ala Lys Lys Phe Pro Asn Met Lys
300 305 310

ATA CAG ATC CAT GTC TCA GCC TCC ACC CCG CCA CAC CTG TCT GTG CAG 1110
Ile Gln Ile His Val Ser Ala Ser Thr Pro Pro His Leu Ser Val Gln
315 320 325

CCC ACC GGC CTT ACC TTC TAC CCT GCC GTG GAT GTC CAG GCC TTT GCC 1158
Pro Thr Gly Leu Thr Phe Tyr Pro Ala Val Asp Val Gln Ala Phe Ala
330 335 340 345

GTC CTC CCC AAC TCC TCC CTG GCT TCC CTC TTC CTG ATT GGC ATG CAC 1206
Val Leu Pro Asn Ser Ser Leu Ala Ser Leu Phe Leu Ile Gly Met His
350 355 360

ACA ACT GGT TCC ATG GAG GTC AGC GCC GAG TCC AAC AGG CTT GTT GGA 1254
Thr Thr Gly Ser Met Glu Val Ser Ala Glu Ser Asn Arg Leu Val Gly
365 370 375

GAG CTC AAG CTG GAT AGG CTG CTC CTG GAA CTG AAG CAC TCA AAT ATT 1302
Glu Leu Lys Leu Asp Arg Leu Leu Leu Glu Leu Lys His Ser Asn Ile
380 385 390

GGC CCC TTC CCG GTT GAA TTG CTG CAG GAT ATC ATG AAC TAC ATT GTA 1350
Gly Pro Phe Pro Val Glu Leu Leu Gln Asp Ile Met Asn Tyr Ile Val
395 400 405

CCC ATT CTT GTG CTG CCC AGG GTT AAC GAG AAA CTA CAG AAA GGC TTC 1398
Pro Ile Leu Val Leu Pro Arg Val Asn Glu Lys Leu Gln Lys Gly Phe
410 415 420 425

CCT CTC CCG ACG CCG GCC AGA GTC CAG CTC TAC AAC GTA GTG CTT CAG 1446
Pro Leu Pro Thr Pro Ala Arg Val Gln Leu Tyr Asn Val Val Leu Gln
430 435 440

CCT CAC CAG AAC TTC CTG CTG TTC GGT GCA GAC GTT GTC TAT AAA 1491
Pro His Gln Asn Phe Leu Leu Phe Gly Ala Asp Val Val Tyr Lys
445 450 455

TGAAGGCACC AGGGGTGCCG GGGGCTGTCA GCCGCACCTG TTCCTGATGG GCTGTGGGGC 1551
ACCGGCTGCC TTTCCCAGG GAATCCTCTC CAGATCTTAA CCAAGAGCCC CTTGCAAACT 1611
TCTTCGACTC AGATTCAGAA ATGATCTAAA CACGAGGAAA CATTATTCAT TGGAAAAGTG 1671
CAIGGTGTGT ATTTTAGGGA TTATGAGCTT CTTTCAAGGG CTAAGGCTGC AGAGATATTT 1731
CCTCCAGGAA TCGTGTTCAT ATTGTAACCA AGAAATTTCC ATTTGTGCTT CATGAAAAAA 1791
AACTTCTGGT TTTTTCATG TG 1813

```

(2) INFORMATION FOR SEQ ID NO:206:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 487 amino acids
- (B) TYPE: amino acid
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: protein

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:206:

Met Arg Glu Asn Met Ala Arg Gly Pro Cys Asn Ala Pro Arg Trp Val
 -31 -30 -25 -20
 Ser Leu Met Val Leu Val Ala Ile Gly Thr Ala Val Thr Ala Ala Val
 -15 -10 -5 1
 Asn Pro Gly Val Val Val Arg Ile Ser Gln Lys Gly Leu Asp Tyr Ala
 5 10 15
 Ser Gln Gln Gly Thr Ala Ala Leu Gln Lys Glu Leu Lys Arg Ile Lys
 20 25 30
 Ile Pro Asp Tyr Ser Asp Ser Phe Lys Ile Lys His Leu Gly Lys Gly
 35 40 45
 His Tyr Ser Phe Tyr Ser Met Asp Ile Arg Glu Phe Gln Leu Pro Ser
 50 55 60 65
 Ser Gln Ile Ser Met Val Pro Asn Val Gly Leu Lys Phe Ser Ile Ser
 70 75 80
 Asn Ala Asn Ile Lys Ile Ser Gly Lys Trp Lys Ala Gln Lys Arg Phe
 85 90 95
 Leu Lys Met Ser Gly Asn Phe Asp Leu Ser Ile Glu Gly Met Ser Ile
 100 105 110
 Ser Ala Asp Leu Lys Leu Gly Ser Asn Pro Thr Ser Gly Lys Pro Thr
 115 120 125
 Ile Thr Cys Ser Ser Cys Ser Ser His Ile Asn Ser Val His Val His
 130 135 140 145
 Ile Ser Lys Ser Lys Val Gly Trp Leu Ile Gln Leu Phe His Lys Lys
 150 155 160
 Ile Glu Ser Ala Leu Arg Asn Lys Met Asn Ser Gln Val Cys Glu Lys
 165 170 175
 Val Thr Asn Ser Val Ser Ser Lys Leu Gln Pro Tyr Phe Gln Thr Leu
 180 185 190
 Pro Val Met Thr Lys Ile Asp Ser Val Ala Gly Ile Asn Tyr Gly Leu
 195 200 205
 Val Ala Pro Pro Ala Thr Thr Ala Glu Thr Leu Asp Val Gln Met Lys
 210 215 220 225
 Gly Glu Phe Tyr Ser Glu Asn His His Asn Pro Pro Pro Phe Ala Pro
 230 235 240
 Pro Val Met Glu Phe Pro Ala Ala His Asp Arg Met Val Tyr Leu Gly
 245 250 255
 Leu Ser Asp Tyr Phe Phe Asn Thr Ala Gly Leu Val Tyr Gln Glu Ala
 260 265 270
 Gly Val Leu Lys Met Thr Leu Arg Asp Asp Met Ile Pro Lys Glu Ser
 275 280 285
 Lys Phe Arg Leu Thr Thr Lys Phe Phe Gly Thr Phe Leu Pro Glu Val
 290 295 300 305

Ala Lys Lys Phe Pro Asn Met Lys Ile Gln Ile His Val Ser Ala Ser
 310 315 320

Thr Pro Pro His Leu Ser Val Gln Pro Thr Gly Leu Thr Phe Tyr Pro
 325 330 335

Ala Val Asp Val Gln Ala Phe Ala Val Leu Pro Asn Ser Ser Leu Ala
 340 345 350

Ser Leu Phe Leu Ile Gly Met His Thr Thr Gly Ser Met Glu Val Ser
 355 360 365

Ala Glu Ser Asn Arg Leu Val Gly Glu Leu Lys Leu Asp Arg Leu Leu
 370 375 380 385

Leu Glu Leu Lys His Ser Asn Ile Gly Pro Phe Pro Val Glu Leu Leu
 390 395 400

Gln Asp Ile Met Asn Tyr Ile Val Pro Ile Leu Val Leu Pro Arg Val
 405 410 415

Asn Glu Lys Leu Gln Lys Gly Phe Pro Leu Pro Thr Pro Ala Arg Val
 420 425 430

Gln Leu Tyr Asn Val Val Leu Gln Pro His Gln Asn Phe Leu Leu Phe
 435 440 445

Gly Ala Asp Val Val Tyr Lys
 450 455

(2) INFORMATION FOR SEQ ID NO:207:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 4 amino acids
 (B) TYPE: amino acid
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

- (ix) FEATURE:
 (A) NAME/KEY: misc feature
 (D) OTHER INFORMATION: "core sequence LIQL"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:207:

Leu Ile Gln Leu
 1

(2) INFORMATION FOR SEQ ID NO:208:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 4 amino acids
 (B) TYPE: amino acid
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

- (ix) FEATURE:
 (A) NAME/KEY: misc feature
 (D) OTHER INFORMATION: "core sequence IQLF"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:208:

Ile Gln Leu Phe

1

(2) INFORMATION FOR SEQ ID NO:209:

- ```
(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 5 amino acids
 (B) TYPE: amino acid
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:
 (A) NAME/KEY: misc_feature
 (D) OTHER INFORMATION: "core sequence WLIQL"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:209:
```

Tro Leu Ile Gln Leu

1

5

(2) INFORMATION FOR SEQ ID NO:210:

- ```
(i) SEQUENCE CHARACTERISTICS:
    (A) LENGTH: 5 amino acids
    (B) TYPE: amino acid
    (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:
    (A) NAME/KEY: misc_feature
    (D) OTHER INFORMATION: "core sequence LIQLF"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:210:
```

Leu Ile Gln Leu Phe

1

5

(2) INFORMATION FOR SEQ ID NO:211:

- ```
(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 6 amino acids
 (B) TYPE: amino acid
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:
 (A) NAME/KEY: misc_feature
 (D) OTHER INFORMATION: "core sequence WLIQLF"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:211:
```

Trp Leu Ile Gln Leu Phe

1

5